

Question Paper Preview

Notations :

- 1.Options shown in green color and with ✓ icon are correct.
- 2.Options shown in red color and with ✗ icon are incorrect.

Question Paper Name :	EARTH SCIENCES 24th Dec 2025 Shift 1
Subject Name :	EARTH SCIENCES
Creation Date :	2025-12-24 14:34:40
Duration :	180
Total Marks :	300
Display Marks:	Yes
Change Font Color :	No
Change Background Color :	No
Change Theme :	No
Help Button :	No
Show Reports :	No
Show Progress Bar :	No

Group 1

Group Number :	1
Group Id :	898741183
Group Maximum Duration :	0
Group Minimum Duration :	180
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	300

Paper I

Section Id :	898741365
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	42
Number of Questions to be attempted :	42
Section Marks :	100

Maximum Instruction Time : 0
Sub-Section Number : 1
Sub-Section Id : 8987411130
Question Shuffling Allowed : Yes

Question Number : 1 Question Id : 89874127702 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

The primary purpose of MOOCs (Massive Open Online Courses) is to:
మూక్స్ ప్రాథమిక ఉద్దేశము

Options :

898741109201. ✖ Exclusively offer courses in a physical classroom setting.
భౌతిక తరగతి గదిలో కోర్సులను ఆఫర్ చేయుట
898741109202. ✔ Provide free, high-quality education to a large number of learners worldwide.
ప్రపంచవ్యాప్తంగా పెద్దసంఖ్యలో అభ్యాసకులకు ఉచిత, ఉన్నత, నాణ్యత విద్య అందించుట
898741109203. ✖ Serve as a replacement for traditional university degrees.
సాంప్రదాయక విశ్వ విద్యాలయాల డిగ్రీలకు, ప్రత్యామ్నాయంగా పనిచేయుటం
898741109204. ✖ Focus on a limited number of specialized subjects.
పరిమిత ప్రత్యేక విషయాలపై దృష్టి సారించుట

Question Number : 2 Question Id : 89874127703 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

A teacher designs a lesson plan that encourages students to use their prior knowledge and personal experiences to learn a new concept. This approach is aligned with which level of teaching?

విద్యార్థులు తమ పూర్వజ్ఞానాన్ని వ్యక్తిగత అనుభవాలను ఉపయోగించి కొత్త భావనను అభ్యసించుటను ప్రోత్సహించుటకై, ఉపాధ్యాయుడు ఒక పాఠ్య ప్రణాళిక నమూనా తయారు చేయును. ఏ బోధనా స్థాయితో ఈ దృక్పథము సమలేఖనం చేయబడింది?

Options :

Memory Level

జ్ఞాపకశక్తి స్థాయి

898741109205. ✖

Understanding Level

అర్థం చేసుకొనే స్థాయి

898741109206. ✖

Reflective Level

ప్రతిబింబ స్థాయి

898741109207. ✔

Rote Level

కంఠస్థ స్థాయి

898741109208. ✖

Question Number : 3 Question Id : 89874127704 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

A teacher uses a variety of charts, diagrams, and models to explain complex concepts.
This is an example of which type of teaching support system?

సంక్లిష్ట భావనలను వివరించుటకు, ఉపాధ్యాయుడు అనేక రకాల చార్టులను, రేఖా చిత్రాలను,
నమూనాలను ఉపయోగిస్తాడు. ఈ బోధనా మద్దతు పద్ధతి ఏ రకానికి ఉదాహరణ.

Options :

ICT-based
ఐసిటి ఆధారిత

898741109209. ✖

Modern
నవీన

898741109210. ✖

Traditional
సాంప్రదాయ

898741109211. ✔

Online
ఆన్‌లైన్

898741109212. ✖

Question Number : 4 Question Id : 89874127705 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Which of the following best describes the characteristics of a **cognitive** learner?

ఈ దిగువ వానిలో ఏది అభిజ్ఞా అభ్యాసకుని లక్షణాలను చక్కగా వివరించును.

Options :

They prefer to learn through physical activity.

వారు భౌతిక కార్యకలాపాల ద్వారా నేర్చుకొనుటకు ఇష్టపడతారు

898741109213. ✖

They are primarily focused on social interactions.

వారు సామాజిక పరస్పర చర్యలపై ప్రాథమికంగా దృష్టి సారిస్తారు

898741109214. ✖

They are interested in how information is processed and how concepts are mentally organized.

వారు సమాచారము ఎలా ప్రాసెస్ చేయబడినదీ, ఎలా భావనలను మానసికంగా వ్యవస్థీకృతం చేశారు. అను వానిపై ఆసక్తి చూపుతారు.

898741109215. ✔

They are motivated by emotional connections with their teacher.

వారు, వారి ఉపాధ్యాయుల భావోద్వేగ సంబంధాలచే ప్రేరేపించబడతారు.

898741109216. ✖

Question Number : 5 Question Id : 89874127706 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

What is the main purpose of a **Placement Evaluation** in education?
విద్యలో ఉద్యోగ నియామక మూల్యాంకనం ఏవిధంగా ఉపయోగపడుతుంది?

Options :

To assess student learning at the end of a course.
కోర్సు ముగింపులో విద్యార్థి అభ్యాసమును అంచనా వేయడానికి

898741109217. ✖

To identify a student's prior knowledge and skills before beginning a course.
ఒక కోర్సు ప్రారంభించక ముందు విద్యార్థి యొక్క మునుపటి జ్ఞానం మరియు
నైపుణ్యాలను గుర్తించడానికి.

898741109218. ✔

To provide ongoing feedback during a course.
కోర్సు కొనసాగుతున్న సమయంలో నిరంతర ప్రతిస్పందన అందించడానికి

898741109219. ✖

To help students choose a career path.
విద్యార్థులు జీవనోపాధి బాట ఎంచుకొనుటలో సహకరించుట

898741109220. ✖

Question Number : 6 Question Id : 89874127707 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Which of the following is a key characteristic of the **Experimental** research method?

ప్రయోగాత్మక పరిశోధనా పద్ధతికి ముఖ్య లక్షణం ఈ క్రింది దానిలో ఏది?

Options :

It observes and describes a phenomenon in its natural setting.

ఇది ఒక ఘటనను దాని సహజ పరిసరాల్లో పరిశీలించి వివరిస్తుంది.

898741109221. ✖

It manipulates one or more variables to determine a cause-and-effect relationship.

కారణము, ప్రభావము సంబంధమును నిర్ణయించుటకు ఒకటి లేదా ఎక్కువ

చలాంశములను ప్రేరేపిస్తుంది.

898741109222. ✔

It relies on qualitative data from interviews and case studies.

మౌఖిక పరీక్షల ద్వారాను, కేసు అధ్యయనాల నుండి గుణాత్మక దత్తాంశముపై

ఆధారపడుతుంది.

898741109223. ✖

It explores past events to understand present conditions.

ప్రస్తుత పరిస్థితులను అర్థం చేసుకొనుటకు గత సంఘటనలను అన్వేషిస్తుంది.

898741109224. ✖

Question Number : 7 Question Id : 89874127708 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

In the context of research, what does the term **referencing** mean?

పరిశోధనా సందర్భంలో సూచీకరణ అనగానేమి?

Options :

Conducting interviews with experts.

నిపుణులచే మౌఖిక పరీక్షలు జరుపుట

898741109225. ✖

Listing all the books and articles the researcher has read.

పరిశోధకుడు చదివిన అన్ని పుస్తకాలు, వ్యాసాల జాబితా తయారుచేయుట

898741109226. ✖

Acknowledging the sources of information used in the research paper.

పరిశోధనా పత్రములో ఉపయోగించిన సమాచారపు మూలాలను గుర్తించుట

898741109227. ✔

Asking for feedback from other researchers.

ఇతర పరిశోధకుల నుండి ప్రతి స్పందన సేకరణ చేయుట

898741109228. ✖

Question Number : 8 Question Id : 89874127709 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

A researcher wants to understand the meaning that people attach to a particular social event. Which type of research approach is most suitable for this study?

ఒక సామాజిక సంఘటనకు ప్రజలు జతచేయు అర్థమును ఒక పరిశోధకుడు తెలుసుకోవాలను కుంటున్నాడు. ఈ అధ్యయనమునకు ఏ పరిశోధనా దృక్పథము తగినది?

Options :

Positivism

సానుకూలవాద సిద్ధాంతం

898741109229. ✖

Experimental

ప్రయోగాత్మక

898741109230. ✖

Quantitative

పరిమాణాత్మక

898741109231. ✖

Post-positivistic

పోస్ట్ -సానుకూల వాదం

898741109232. ✔

Question Number : 9 Question Id : 89874127710 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

What is the primary role of a **literature review** in research?
పరిశోధనలో సాహిత్య సమీక్ష ప్రాథమిక పాత్ర ఏమి?

Options :

898741109233. ✖ To provide a summary of the researcher's personal opinion.
పరిశోధకుని వ్యక్తిగత అభిప్రాయ ప్రసారాంశమును ఇచ్చుట

898741109234. ✖ To prove that the research has not been done before.
ఇంతకు ముందు ఆ పరిశోధన జరగలేదని నిరూపించుట

898741109235. ✔ To understand the current state of knowledge and identify gaps in existing research.
ప్రస్తుత జ్ఞాన స్థితిని అర్థం చేసుకొని ప్రస్తుత పరిశోధనలో అంతరాలను గుర్తించుట

898741109236. ✖ To list all the books available in a library.
గ్రంథాలయంలో ఉన్న అన్ని పుస్తకాల జాబితా చేయుట

Question Number : 10 Question Id : 89874127711 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

In the context of research ethics, what is **informed consent**?
పరిశోధనా నైతికాల సందర్భములో తెలియపరచిన సమ్మతి అనగానేమి?

Options :

A document that allows a researcher to use a participant's personal data without permission.
పాల్గొను వ్యక్తి యొక్క వ్యక్తిగత దత్తాంశము అతని అనుమతి లేకుండా పరిశోధకుడు వాడుకొను పత్రము

898741109237. ✖

An agreement where a participant is fully informed about the research and agrees to participate voluntarily.
పరిశోధన గురించి పూర్తిగా తెలియజేసిన తర్వాత, స్వచ్ఛందంగా పాల్గొనడానికి ఇచ్చే అంగీకారం.

898741109238. ✔

A formal letter from a university approving the research.
పరిశోధనను అంగీకరిస్తూ విశ్వ విద్యాలయము ఇచ్చే అధికారిక లేఖ

898741109239. ✖

A form that proves the researcher has received funding for their project.
పరిశోధకుడు తమ ప్రాజెక్ట్ కు ఆర్థిక మద్దతు పొందినట్లు ధృవీకరించే పత్రం

898741109240. ✖

Sub-Section Number :

2

Sub-Section Id :

8987411131

Question Shuffling Allowed :

No

Question Id : 89874127712 Question Type : COMPREHENSION Sub Question Shuffling Allowed : No Group Comprehension Questions : No Question Pattern Type : NonMatrix

Question Numbers : (11 to 15)

Question Label : Comprehension

Read the following passage and answer the question that follow (11-15)

There is a pleasure in painting which none but painters know.' In writing, you have to contend with the world; in painting, you have only to carry on a friendly strife with Nature. You sit down to your task, and are happy. From the moment that you take up the pencil, and look Nature in the face, you are at peace with your own heart. No angry passions rise to disturb the silent progress of the work, to shake the hand, or dim the brow: no irritable humours are set afloat: you have no absurd opinions to combat, no point to strain, no adversary to crush, no fool to annoy—you are actuated by fear or favour to no man. There is 'no juggling here,' no sophistry, no intrigue, no tampering with the evidence, no attempt to make black white or white black: but you resign yourself into the hands of a greater power, that of Nature, with the simplicity of a child, and the devotion of an enthusiast--'study with joy her manner, and with rapture taste her style.' The mind is calm, and full at the same time. The hand and eye are equally employed. In tracing the commonest object, a plant or the stump of a tree, you learn something every moment. You perceive unexpected differences, and discover likenesses where you looked for no such thing. You try to set down what you see--find out your error, and correct it. You need not play tricks, or purposely mistake: with all your pains, you are still far short of the mark. Patience grows out of the endless pursuit, and turns it into a luxury.

ఈ క్రింది భాగాన్ని చదివి, తరువాతి ప్రశ్నలకు సమాధానం ఇవ్వండి(11-15)

చిత్రకారులకే తెలిసిన ఒక ప్రత్యేకమైన ఆనందం ఉంటుంది. వ్రాయడం అనే పనిలో రచయిత ప్రపంచంతో పోరాడవలసి వస్తుంది. కానీ చిత్రకళ లో మాత్రం ప్రకృతితో స్నేహపూర్వక పోరాటమే ఉంటుంది. వారు తమ పనిలో నిమగ్నమయ్యే క్షణం నుంచే ఆనందం మొదలవుతుంది. పెన్సిల్ చేతిలోకి తీసుకుని, ప్రకృతిని ప్రత్యక్షంగా చూడగానే వారి హృదయం పూర్తిగా ప్రశాంతమవుతుంది. పని మౌనంగా, సహజంగా ముందుకు సాగుతుంది, చేతి కంపనం లేదు, కనుబొమ్మ మసకబడదు, కోపం, చికాకు, మాయ, వంచన ఏ వీకలగవు. తర్కాల కోసం పోరాటం లేదు, ఒత్తిడి పెట్టాల్సిన అంశాలు లేవు, జయించాల్సిన ప్రత్యర్థి లేదు, బాధించే మూర్ఖుడు లేదు, వారి సృజనను ఎవరి భయం గానీ, ప్రీతి గానీ ప్రభావితం చేయలేవు, ఇక్కడ మోసపూరిత నాటకాలు, వ్యూహాలు, సాక్ష్యాల మార్పులు, నల్లను తెల్లగా తెల్లను నల్లగా చేయాలనే ప్రయత్నాలు ఉండవు. వారు తమను ప్రకృతి గొప్ప శక్తి చేతుల్లో సమర్పించుకుంటారు. బాలుడిలా, భక్తితో కూడిన ప్రేమికుడిలా వారు ప్రకృతిని అధ్యయనం చేస్తారు: అప్పుడు మనసు శాంతిగా, అదే సమయంలో సంపూర్ణంగా ఉంటుంది. చేయి, కన్ను రెండు సమానంగా నిమగ్నమవుతాయి. సాధారణమైన వస్తువునుగానీ ఒక మొక్కను, చెట్టు కాండాన్ని గీయడంలోనూ ప్రతి క్షణం అనుభవం, కొత్త దార్శనికత లభిస్తుంది. అనుకోని భిన్నతలను గమనిస్తారు, పొరపాట్లను సరిదిద్దుతారు. ఉపాయాలు అవసరం లేదు, కావాలనే తప్పులు చేసే అవసరం లేదు, ఎంత ప్రయత్నించినా, లక్ష్యం ఇంకా దూరంగానే ఉంటుంది. కానీ అదే నిరంతర సాధనలో సహనం వుడుతుంది. ఆ సహనమే చివరికి ఒక విలాసంగా మారుతుంది.

Sub questions

Question Number : 11 Question Id : 89874127713 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Options :

it is an interaction with nature

చిత్రకళ ప్రకృతితో స్నేహపూర్వక పరస్పర సంబంధంను కలిగి వుంటుంది

898741109241. ✓

it is lucrative

చిత్రకళ లాభదాయకం

898741109242. ✗

it is inspiring

చిత్రకళ ప్రేరణ కలిగించును

898741109243. ✗

it is less laborious

చిత్రకళ తక్కువ శ్రమతో కూడుకున్నది

898741109244. ✗

Question Number : 12 Question Id : 89874127714 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

What does the author refer to in the phrase, “the silent progress of the work”?

“పని యొక్క నిశ్శబ్ద పురోగతి” అనే పదబంధంలో రచయిత ఏమి సూచిస్తారు?

Options :

observing nature

ప్రకృతిని గమనించడం

898741109245. ✗

feeling secluded

ఏకాంత భావన

898741109246. ✗

tranquillity in nature

ప్రకృతిలో ప్రశాంతత

898741109247. ✗

painting nature

ప్రకృతిని చిత్రీకరించుట

898741109248.

Question Number : 13 Question Id : 89874127715 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which phrase in the above passage means- “not trying to destroy truth or reality”?

“సత్యాన్ని లేదా వాస్తవాన్ని నాశనం చేయాలని ప్రయత్నించకపోవడం” అనే అర్థం వచ్చే పదబంధం ఏది?

Options :

no irritable humours are set afloat
చికాకు కలిగించే భావాలు లేవు
898741109249. ✖

no attempt to make black white, or white black
నలుపును తెల్లగా, లేదా తెలుపును నలుపుగా మార్చే ప్రయత్నం లేదు
898741109250. ✔

no adversary to crush
అణిచివేసేందుకు ప్రత్యర్థి లేదు
898741109251. ✖

no fool to annoy
బాధించే మూర్ఖుడు లేదు
898741109252. ✖

Question Number : 14 Question Id : 89874127716 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

What does the author mean by the phrase- “The mind is calm, and full at the same time”?

“మనసు శాంతిగా, అదే సమయంలో సంపూర్ణంగా ఉంటుంది” అనే పదబంధానికి రచయిత అర్థం ఏమిటి?

Options :

The mind is wavering and uncertain
మనస్సు ఆందోళనతో మరియు అనిశ్చిత భావంలో ఉంది
898741109253. ✖

The mind is empty and without thought
మనసు ఖాళీగా మరియు ఆలోచనలేమి లేకుండా ఉంది
898741109254. ✖

898741109255. ✓

The mind is disturbed and bored
మనసు కలవరపడి మరియు విసుగు చెందింది.

898741109256. ✖

Question Number : 15 Question Id : 89874127717 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

The author learned that perpetual _____ leads to perseverance.
రచయిత తెలుసుకున్నది ఏమిటంటే, నిరంతర _____ సహనాన్ని పెంపొందిస్తుంది

Options :

Pain
నొప్పి

898741109257. ✖

Pleasure
ఆనందం

898741109258. ✖

Perception
అవగాహన

898741109259. ✖

Pursuit
ప్రయత్నం

898741109260. ✓

Sub-Section Number :

3

Sub-Section Id :

8987411132

Question Shuffling Allowed :

Yes

Question Number : 16 Question Id : 89874127718 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

What is called when the receiver confirms with the sender that he has received the message and understood it?

పంపిన వ్యక్తి (sender) పంపిన సందేశాన్ని స్వీకరించిన వ్యక్తి (receiver) అందుకుని, దాన్ని అర్థం చేసుకున్నాన్ననని ధృవీకరించినప్పుడు దాన్ని ఏమంటారు?

Options :

898741109261. ✖
Transfer
చేరవేయుట

898741109262. ✖
Encode
సాంకేతికరణ

898741109263. ✔
Feedback
ప్రతిస్పందన

898741109264. ✖
Transmission
ప్రసారం

Question Number : 17 Question Id : 89874127719 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

In a conversation, if a person has crossed his arms, he is showing his_____.

ఒక సంభాషణలో వ్యక్తి తన చేతులను మోకళ్ళపై లేదా ఛాతీపై మడిచిపెట్టుకుని (crossed his arms) ఉంటే, అతను తన_____ను చూపిస్తున్నాడు.

Options :

Excitement

ఉత్సాహం

898741109265. ✖

Nervousness

భయాందోళన

898741109266. ✔

Happiness

సంతోషం

898741109267. ✖

Openness

అసక్తి

898741109268. ✖

Question Number : 18 Question Id : 89874127720 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

In an inter-cultural communication, being _____ leads to smooth flow of communication :
పరస్పర సంస్కృతుల మధ్య సందేశములో, ఈ దిగువ సందర్భములో మృదువైన సందేశ ప్రవాహమునకు
దారి తీయును.

Options :

898741109269. ✓
open-minded
నిష్పక్షపాతం

898741109270. ✗
biased
పక్షపాతం

898741109271. ✗
unwilling
అయిష్టత

898741109272. ✗
Prejudiced
ముందస్తు అభిప్రాయంతో

Question Number : 19 Question Id : 89874127721 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

If a sender uses excessive technical knowledge and ignores in his communication on that the receiver is unable to understand, it creates a ____ barrier in communication.

పంపువాడు తన సందేశములో ఎక్కువ సాంకేతిక విజ్ఞానము, పరిభాష ఉపయోగించినపుడు, తీసుకున్నవాడు అర్థం చేసుకోలేకపోతే దాని ఈ దిగువ సందేశము అడ్డంకి అందురు.

Options :

Physical
భౌతిక

898741109273. ✖

Emotional
ఆవేశ

898741109274. ✖

Psychological
మానసిక

898741109275. ✖

Semantic
సిమాంటిక్

898741109276. ✔

Television is an example of
టెలివిజను దీనికి ఉదాహరణ

Options :

Traditional
సంప్రదాయ

898741109277. ✖

Electronic
ఎలక్ట్రానిక్

898741109278. ✔

Social
సాంఘిక

898741109279. ✖

mass
సామూహిక

898741109280. ✖

Question Number : 21 Question Id : 89874127723 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

In a running race of 750 meters, Qureshi starts 25m ahead of Pramod but Pramod wins the race while Qureshi is still 25m behind. Then the ratio of speeds of Pramod to Qureshi, given that both start at the same time, is

750 మీటర్ల ఒక పరుగు పందెంలో, ప్రమోద్ కన్న ఖుర్రేషీ 25 మీటర్లు ముందుకెళ్ళాక పరుగు పందెం ప్రారంభించినప్పటికీ ఖుర్రేషీని 25 మీటర్లు వెనుకంజ వేయగా ప్రమోద్ గెలిచాడు. ఇద్దరూ ఒకేసారి పరుగుప్రారంభించినచో ప్రమోద్, ఖుర్రేషీల వేగాల నిష్పత్తి

Options :

898741109281. ✖ 15 : 14

898741109282. ✖ 28 : 27

898741109283. ✖ 29 : 28

898741109284. ✔ 30 : 29

Question Number : 22 Question Id : 89874127724 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

A water tank is filled by two pipes in 20 hours. One of the pipes fills it alone 30 hours faster than the other. Then the slower pipe fills it in how many hours?

ఒక నీటి తొట్టి రెండు గొట్టాల ద్వారా 20 నిమిషాలలో నింపబడినది. వాటిలో ఒక గొట్టం ఒక్కడే దానిని మరోగొట్టం కన్న 30 గంటలు వేగంగా నింపగలదు. అప్పుడు నెమ్మదిగా నింపే గొట్టం ఒక్కడే ఆ తొట్టిని ఎన్ని గంటలలో నింపగలదు?

Options :

898741109285. ✖ 50

898741109286. ✔ 60

898741109287. ✖ 70

898741109288. ✖ 65

Question Number : 23 Question Id : 89874127725 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Four persons A,B,C and D are related to each other as follows:

A is the son of B,

B is the daughter of C, and

C is the father of D. Then which of the following statements is true?

నలుగురు వ్యక్తులైన A,B,C మరియు Dల మధ్య బంధుత్వం క్రింది విధంగా ఉంది:

B యొక్క కుమారుడు A,

C యొక్క కుమార్తె B, మరియు

D యొక్క తండ్రి C. అప్పుడు క్రింది ప్రవచనాలలో ఏది నిజం?

Options :

898741109289. ✓
C is the grand father of A
A యొక్క తాత C

898741109290. ✗
A is the son of D
D యొక్క కుమారుడు A

898741109291. ✗
B,D are sisters
B,Dలు సోదరీమణులు

898741109292. ✗
D is the son of C
C యొక్క కుమారుడు D

Question Number : 24 Question Id : 89874127726 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

A number when increased by some percent equals 4000 and when decreased by same percent yields 3600. Then the number is

ఒక సంఖ్యను కొంత శాతం పెంచగా 4000కు సమానం అయింది మరియు అంతే శాతం తగ్గించగా అది 3600 అయింది. అప్పుడు ఆ సంఖ్య

Options :

898741109293. ✖ 3200

898741109294. ✖ 3500

898741109295. ✖ 3600

898741109296. ✔ 3800

Question Number : 25 Question Id : 89874127727 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Find the missing term in the following.

CAKE : NHPH :: KING : _____

క్రింది వానిలో లుప్తపదం కనుక్కోండి.

CAKE : NHPH :: KING : _____

Options :

898741109297. ✖ UORI

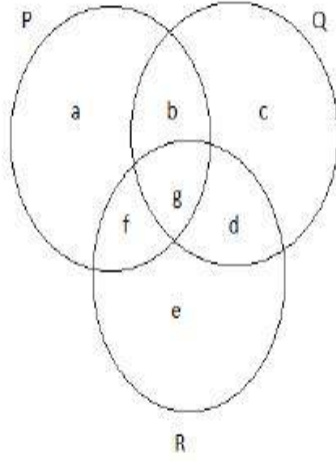
898741109298. ✖ VPTI

898741109299. ✖ VPSK

898741109300. ✔ VPSJ

In the following venn diagram, three circles represent the three elective subjects P,Q and R to be opted by the students in a course. The lower case letters in different regions of P,Q and R represent the number of students who opted for those subjects in different combinations, and they satisfy the relation $a > b > c > g > f > d > e > 5$.

ఒక కోర్సులో విద్యార్థులు ఎంచుకోవలసిన మూడు ఐచ్ఛిక విషయాలైన P,Q మరియు Rలను క్రింది వెన్ చిత్రంలోని మూడు వృత్తాలు సూచిస్తాయి. P,Q మరియు Rలలోని విభిన్న ప్రాంతాలు సూచించే అయా విషయాలకలయికలతో ఎంచుకున్న విద్యార్థుల సంఖ్యలను చిన్న అక్షరాలు సూచిస్తాయి మరియు అవి $a > b > c > g > f > d > e > 5$ సంబంధాన్ని తృప్తిపరుస్తాయి.



The number of students who opted for P and also for R but not Q is the arithmetic mean of the number of students who opted for P and also for Q but not R; and the number of students who opted for Q and also for R but not P. If $f=10$ and $a=15$, then the sum of the number of students who opted for P alone, Q alone, R alone is

P మరియు R లను ఎంచుకుంటూ Qను ఎంచుకోని విద్యార్థుల సంఖ్య అనేది P మరియు Q లను ఎంచుకుంటూ R ను ఎంచుకోని విద్యార్థుల సంఖ్య మరియు Q మరియు R లను ఎంచుకుంటూ P ను ఎంచుకోని విద్యార్థుల సంఖ్యల సగటుకు సమానం. $f=10$ మరియు $a=15$ అయినపుడు P మాత్రమే, Q మాత్రమే మరియు R మాత్రమే ఎంచుకున్న విద్యార్థుల సంఖ్యల మొత్తం..

Options :

898741109301. ✓ 33

898741109302. ✗ 36

898741109303.

898741109304. ✖

30

Question Number : 27 Question Id : 89874127729 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Select the suitable entry from the given options that fills the blank space in the following analogy

“EOPSOLIXN: EXPLOSION: : HEARTBEAT: -----

క్రింది సారూప్యతలోని ఖాళీని ఇచ్చిన ఐచ్ఛికాల నుండి సరైన దానితో పూరించండి.

“EOPSOLIXN: EXPLOSION: :HEARTBEAT: -----

Options :

HEERTBAAT

898741109305. ✖

HAERTBAET

898741109306. ✖

HAABTREEET

898741109307. ✔

HAABRTEET

898741109308. ✖

Question Number : 28 Question Id : 89874127730 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

In argumentation, what is the primary effect of using emotive language?

వాదనలో భావోద్వేగ భాషను వాడటం వల్ల కలిగే ప్రాథమిక ప్రభావం ఏది?

Options :

898741109309. ✖ Increases logical validity
తార్కిక ప్రామాణికత పెరుగుతుంది

898741109310. ✖ Appeals to factual accuracy
వాస్తవ ఖచ్చితత్వానికి దారి తీస్తుంది

898741109311. ✔ Influences audience's feelings
ప్రేక్షకుల మనోభావాలను ప్రభావితం చేస్తుంది

898741109312. ✖ Clarifies ambiguous terms
సంశయాత్మకమైన పదాలను స్పష్టంగా వివరిస్తుంది

Question Number : 29 Question Id : 89874127731 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Which pair of categorical statements cannot both be true but can both be false?

రెండూ నిజం కాకుండా ఆ రెండూ అసత్యం కాగలిగేట్లు ఉండే వర్గీకృత ప్రవచనాల యుగ్మం ఏది?

Options :

Universal affirmative and particular negative
సార్వత్రిక అన్వయం మరియు ప్రత్యేక నిరాకరణ

898741109313. ✖

Universal negative and particular affirmative
సార్వత్రిక నిరాకరణ మరియు ప్రత్యేక అన్వయం

898741109314. ✖

Universal affirmative and universal negative
సార్వత్రిక అన్వయం మరియు సార్వత్రిక నిరాకరణ

898741109315. ✔

Particular affirmative and particular negative
ప్రత్యేక అన్వయం మరియు ప్రత్యేక నిరాకరణ

898741109316. ✖

Question Number : 30 Question Id : 89874127732 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Which of the following cannot be established solely by 'Pratyaksha' and necessarily requires another Pramana?

క్రింది వాటిలో తప్పని సరిగా మరొక 'ప్రమాణ' అవసరమై 'ప్రత్యక్ష'తో మాత్రమే రుజువు చేయ
లేనిది ఏది?

Options :

898741109317. ✖ Existence of sweetness in sugar
చక్కెరలోని తీయదనం

898741109318. ✖ Presence of fire in front of the eyes
నీ కళ్ళముందే అగ్ని ఉండటం

898741109319. ✔ Absence of water in a dry pot
పొడికుండలో నీళ్ళు లేకపోవడం

898741109320. ✖ Blue colour of a flower
ఒక పువ్వు యొక్క నీలి రంగు

Sub-Section Number :

4

Sub-Section Id :

8987411133

Question Shuffling Allowed :

No

Question Id : 89874127733 Question Type : COMPREHENSION Sub Question Shuffling Allowed : No Group Comprehension Questions : No Question Pattern Type : NonMatrix

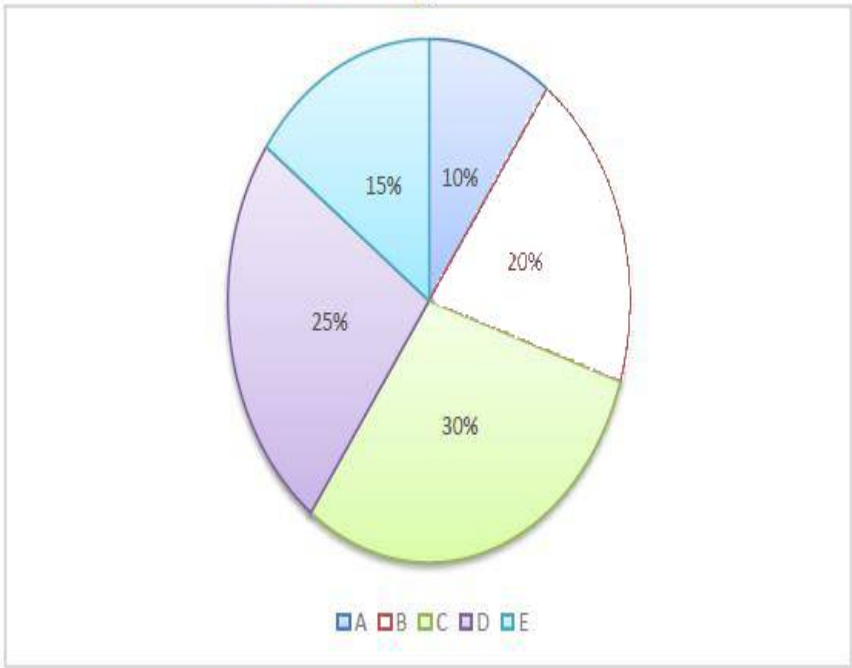
Question Numbers : (31 to 35)

Question Label : Comprehension

Answer the question from 31 to 35 based on the following information. The Pie chart below shows the sales of five different articles, A,B,C,D and E, totaling 2,000 units. The cost price of each unit of the article is Rs.200, Rs.100, Rs.300, Rs.500, and Rs.400, respectively. By selling all 2,000 articles, a profit of 10%, 20% and 30% is achieved on articles. A, B and C, whereas for articles D and E, there is a loss of 25% and 15% respectively.

క్రింది పటం ఆధారంగా 31 నుండి 35 వరకు గల ప్రశ్నలకు జవాబులివ్వండి. ఈ డేటా యొక్క స్వభావం క్రింది వాటిలో ఏదై ఉంటుంది? 2000 యూనిట్ల ఐదు విభిన్న రకాలైన A,B,C,D మరియు E అనే వస్తువుల అమ్మకాలను క్రింది పై చిత్రం చూపుతుంది. వీటి యొక్క ఒక్కో యూనిట్ కొన్న ధరలు వరుసగా రూ.200, రూ.100, రూ.300, రూ.500 మరియు రూ.400. అన్ని 2000 యూనిట్లను అమ్ముగా A,B మరియు Cల పై వరుసగా 10%, 20% మరియు 30% లాభాలను పొందగా D మరియు Eలపై వరుసగా 25% మరియు 15% నష్టాలను పొందిరి.

Sale of Articles
వస్తువుల అమ్మకాలు



Sub questions

Question Number : 31 Question Id : 89874127734 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

The total loss (in rupees) incurred by selling the articles D and E is

D మరియు E వస్తువుల అమ్మకంలో నష్టపోయిన మొత్తం (రూపాయలలో)

Options :

898741109321. ✖ 78500

898741109322. ✔ 79500

898741109323. ✖ 80000

898741109324. ✖ 81000

Question Number : 32 Question Id : 89874127735 Question Type : MCQ Option Shuffling : No

Correct Marks : 2 Wrong Marks : 0

The total profit (in rupees) earned by selling the articles A and B is

A మరియు B వస్తువుల అమ్మకం లభించిన మొత్తం లాభం (రూపాయలలో)

Options :

898741109325. ✖ 10000

898741109326. ✖ 8000

898741109327. ✔ 12000

898741109328. ✖ 11200

Question Number : 33 Question Id : 89874127736 Question Type : MCQ Option Shuffling : No

Correct Marks : 2 Wrong Marks : 0

What is the absolute difference between the total selling prices of articles A and C?

A మరియు C వస్తువుల మొత్తం అమ్మకాల పరమ భేదం

Options :

898741109329. ✖
Rs.1,10,000
రూ. 1,10,000

898741109330. ✖
Rs.2,15,000
రూ. 2,15,000

898741109331. ✖
Rs.1,12,000
రూ. 1,12,000

898741109332. ✔
Rs.1,90,000
రూ. 1,90,000

Question Number : 34 Question Id : 89874127737 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

What is the net profit or loss earned by selling the articles B and D?

B మరియు D వస్తువులను అమ్మడంలో పొందిన నికర లాభం లేదా నష్టం

Options :

898741109333. ✖
Rs. 29,500 profit
రూ.29,500 లాభం

898741109334. ✔
Rs.29,500 loss
రూ. 29,500 నష్టం

898741109335. ✖
Rs.11,000 loss
రూ. 11,000, నష్టం

898741109336.

Question Number : 35 Question Id : 89874127738 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

The difference in the loss incurred by selling D and E and the profit incurred by selling A,B and C is

D మరియు E లను అమ్మడంలో పొందిన నష్టం A,B మరియు C లను అమ్మడంలో పొందిన లాభాల భేదం

Options :

Rs.23,500
రూ. 23,500

898741109337. ✖

Rs.13,500
రూ. 13,500

898741109338. ✔

Rs.43,000
రూ. 43,000

898741109339. ✖

Rs.33,000
రూ. 33,000

898741109340. ✖

Sub-Section Number : 5
Sub-Section Id : 8987411134
Question Shuffling Allowed : Yes

Question Number : 36 Question Id : 89874127739 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Which of the following best describes a LAN?

క్రింది వాటిలో LANని బాగా వివరించేది ఏది ?

Options :

A network connecting cities or countries

898741109341. ✖ నగరాలు లేదా దేశాలను అనుసంధానించే నెట్‌వర్క్

A network within a small area like an office or school

898741109342. ✔ కార్యాలయం లేదా పాఠశాల వంటి చిన్న ప్రాంతంలోని నెట్‌వర్క్

A network designed for transferring large files

898741109343. ✖ పెద్ద ఫైల్‌లను బదిలీ చేయడానికి రూపొందించబడిన నెట్‌వర్క్

A network that uses satellite communication

898741109344. ✖ ఉపగ్రహ కమ్యూనికేషన్‌ను ఉపయోగించే నెట్‌వర్క్

Question Number : 37 Question Id : 89874127740 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

What does FTP stand for?

FTP అంటే ఏమిటి ?

Options :

898741109345. ✖ Folder Text Protocol
ఫోల్డర్ టెక్స్ట్ ప్రోటోకాల్

898741109346. ✖ File Transfer Push
ఫైల్ ట్రాన్స్ఫర్ పుష్

898741109347. ✖ Fixed Terminology Placement
ఫిక్సిడ్ టర్మినాలజీ ప్లేస్మెంట్

898741109348. ✔ File Transfer Protocol
ఫైల్ ట్రాన్స్ఫర్ ప్రోటోకాల్

Question Number : 38 Question Id : 89874127741 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

What does a "mute" button on a video conferencing app do?

వీడియో కాన్ఫరెన్సింగ్ యాప్‌లోని “మ్యూట్” బటన్ ఏమి చేస్తుంది ?

Options :

Stops the video feed for all participants
పాల్గొనే వారందరికీ వీడియో ఫీడ్‌ను ఆపివేస్తుంది

898741109349. ✖

Turns off the user's microphone so others cannot hear them
ఇతరులు వినలేని విధంగా వినియోగదారు మైక్రోఫోన్‌ను ఆపివేస్తుంది

898741109350. ✔

Disconnects the user from the call
వినియోగదారుని కాల్ నుండి డిస్‌కనెక్ట్ చేస్తుంది

898741109351. ✖

Mutes the entire call for everyone
మొత్తం అందరి కాల్ ధ్వని నిలిపివేస్తుంది.

898741109352. ✖

Question Number : 39 Question Id : 89874127742 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

What is the primary purpose of the SWAYAM PRABHA initiative?

స్వయం ప్రభ (SWAYAM PRABHA) చొరవ యొక్క ప్రాథమిక ఉద్దేశ్యం ఏమిటి ?

Options :

To provide access to digital libraries
డిజిటల్ లైబ్రరీలకు ప్రాప్యతను అందించడం

898741109353. ✖

To offer Massive Open Online Courses
భారీ ఓపెన్ ఆన్లైన్ కోర్సులను అందించడం

898741109354. ✖

To broadcast educational programs via DTH channels
డిటిహెచ్ ఛానెల్ ద్వారా విద్యా కార్యక్రమాలను ప్రసారం చేయడం

898741109355. ✔

To connect researchers and faculty
పరిశోధకులు మరియు అధ్యాపకులను అనుసంధానించడం

898741109356. ✖

Question Number : 40 Question Id : 89874127743 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

e-PG Pathshala is an initiative for:

e-PG పాఠశాల అనేది వీటి కోసం ఒక చొరవ:

Options :

School education
పాఠశాల విద్య

898741109357. ✖

Postgraduate education
పోస్ట్ గ్రాడ్యుయేట్ విద్య

898741109358. ✔

Vocational training
వృత్తి శిక్షణ

898741109359. ✖

Teacher training
ఉపాధ్యాయ శిక్షణ

898741109360. ✖

Question Number : 41 Question Id : 89874127744 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

When did the phrase “Sustainable Development” first appear?

“ సుస్థిర అభివృద్ధి” అనే పదబంధం మొదట ఎప్పుడు కనిపించింది?

Options :

1987

898741109361. ✖

1980

898741109362. ✔

1978

898741109363. ✖

1992

898741109364. ✖

Question Number : 42 Question Id : 89874127745 Question Type : MCQ Option Shuffling : No

Correct Marks : 2 Wrong Marks : 0

What does the term "anthropogenic" refer to in the context of human-environment interaction?

మానవ-పర్యావరణ పరస్పర చర్య సందర్భంలో “మనవజన్య” అనే పదం దేనిని సూచిస్తుంది?

Options :

Natural environmental changes caused by human activity
మానవ కార్యకలాపాల వల్ల కలిగే సహజ పర్యావరణ మార్పులు

898741109365. ✖

Environmental damage caused by natural forces
సహజ శక్తుల వల్ల కలిగే పర్యావరణ నష్టం

898741109366. ✖

Environmental changes or activities that are caused by human actions.
పర్యావరణ మార్పులు లేదా మానవ చర్యల వల్ల కలిగే కార్యకలాపాలు

898741109367. ✔

The process of humans adapting to natural changes in the environment.
పర్యావరణంలో సహజ మార్పులకు మానవులు అనుగుణంగా మారే ప్రక్రియ

898741109368. ✖

Question Number : 43 Question Id : 89874127746 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Which international agreement was the primary agenda to control anthropogenic sources of greenhouse gases and mitigate climate change?

గ్రీన్ హౌస్ వాయువుల మానవ జన్యవనరులను నియంత్రించడానికి మరియు వాతావరణ మార్పులను తగ్గించడానికి ఏ అంతర్జాతీయ ఒప్పందం ప్రాథమిక ఎజెండాగా ఉంది ?

Options :

The Kyoto Protocol
క్యోటో ప్రోటోకాల్

898741109369. ✓

The Montreal Protocol
మాంట్రీయల్ ప్రోటోకాల్

898741109370. ✗

The Paris Agreement
పారిస్ ఒప్పందం

898741109371. ✗

The Basel Convention
బాసెల్ కన్వెన్షన్

898741109372. ✗

Question Number : 44 Question Id : 89874127747 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Nuclear energy is classified as a non-renewable resource because:

అణుశక్తిని పునరుత్పాదక వనరుగా వర్గీకరించారు ఎందుకంటే:

Options :

It is derived from a star

ఇది ఒక నక్షత్రం నుండి ఉద్భవించింది

898741109373. ✖

It relies on the finite supply of nuclear fuel (like uranium)

ఇది పరిమిత అణు ఇంధన సరఫరాపై ఆధారపడి ఉంటుంది(యురేనియం వంటివి)

898741109374. ✔

It is replenished by the sun's energy

ఇది సూర్యుని శక్తి ద్వారా తిరిగి నింపబడుతుంది

898741109375. ✖

It is a form of biological energy

ఇది జీవ శక్తి యొక్క ఒక రూపం

898741109376. ✖

Question Number : 45 Question Id : 89874127748 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Under the Paris Agreement, the climate action plans that countries are required to submit are called?

పారిస్ ఒప్పందం ప్రకారం, దేశాలు సమర్పించాల్సిన వాతావరణ కార్యాచరణ ప్రణాళికలను ఏమంటారు ?

Options :

Nationally Determined Contributions (NDCs)
జాతీయంగా నిర్ణయించబడిన సహకారాలు(NDCలు)

898741109377. ✓

Global Stocktakes (GSTs)
గ్లోబల్ స్టాక్ టేక్స్ (GSTలు)

898741109378. ✗

Climate Change Commitments (CCCs)
వాతావరణ మార్పు నిబద్ధతలు (CCCలు)

898741109379. ✗

Sustainable Development Goals (SDGs)
స్థిరమైన అభివృద్ధి లక్ష్యాలు (SDGలు)

898741109380. ✗

Question Number : 46 Question Id : 89874127749 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

The famous Sanskrit grammarian Kautilya, author of the Arthashastra, was a professor at which ancient university?

ప్రసిద్ధ సంస్కృత వ్యాకరణవేత్త, అర్థశాస్త్ర రచయిత కౌటిల్యుడు ఏ పురాతన విశ్వవిద్యాలయంలో
అచార్యునిగా ఉన్నారు ?

Options :

Nalanda
నలంద

898741109381. ✖

Takshashila
తక్షశిల

898741109382. ✔

Mithila
మిథిలా

898741109383. ✖

Vallabhi
వల్లభి

898741109384. ✖

Question Number : 47 Question Id : 89874127750 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

What was the primary aim of the University Education Commission (1948-49), also known as the Radhakrishnan Commission?

రాధాకృష్ణన్ కమిషన్ అని కూడా పిలువబడే విశ్వవిద్యాలయ విద్యా కమిషన్ (1948-49) యొక్క ప్రాథమిక లక్ష్యం ఏమిటి ?

Options :

To focus exclusively on primary education reforms.
ప్రాథమిక విద్యా సంస్కరణలపై ప్రత్యేకంగా దృష్టి పెట్టడం

898741109385. ✖

To recommend reforms for the improvement of higher education.
ఉన్నత విద్య మెరుగుదలకు సంస్కరణలను సిఫార్సు చేయడం

898741109386. ✔

To promote vocational training in rural areas.
గ్రామీణ ప్రాంతాల్లో వృత్తి శిక్షణను ప్రోత్సహించడం

898741109387. ✖

To establish technical institutes for large-scale industrialization.
పెద్ద ఎత్తున పారిశ్రామికీకరణ కోసం సాంకేతిక సంస్థలను స్థాపించడం

898741109388. ✖

Question Number : 48 Question Id : 89874127751 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Non-conventional learning programs are designed to:

సాంప్రదాయేతర అభ్యాస కార్యక్రమాలు వీటి కోసం రూపొందించబడ్డాయి:

Options :

Separate the time and space between the learner and the teacher

అభ్యాసకుడికి మరియు ఉపాధ్యాయుడికి మధ్య సమయం మరియు స్థలాన్ని వేరు చేయడం

898741109389. ✓

Exclusively focus on spiritual and philosophical studies.

అధ్యాత్మిక మరియు తాత్విక అధ్యయనాలపై ప్రత్యేకంగా దృష్టి పెట్టడం

898741109390. ✗

Require fixed classroom times and schedules.

నిశ్చిత తరగతి సమయాలు మరియు షెడ్యూల్ ఉండాలి

898741109391. ✗

Promote rote memorization of lessons.

పాఠాలను కంఠస్థం చేయడాన్ని ప్రోత్సహించడం

898741109392. ✗

Which is the correct order of the "3R" principle for waste management?

వ్యర్థాల నిర్వహణకు “3R” సూత్రం యొక్క సరైన క్రమం ఏది ?

Options :

Reuse, Recycle, Reduce
మళ్లీ ఉపయోగం, పునర్వినియోగం, తగ్గింపు

898741109393. ✖

Reduce, Reuse, Recycle
తగ్గింపు, మళ్లీ ఉపయోగం, పునర్వినియోగం

898741109394. ✔

Recycle, Reduce, Reuse
పునర్వినియోగం, తగ్గింపు, మళ్లీ ఉపయోగం

898741109395. ✖

Recycle, Reuse, Reduce
పునర్వినియోగం, మళ్లీ ఉపయోగం, తగ్గింపు

898741109396. ✖

Question Number : 50 Question Id : 89874127753 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

In a parliamentary system of government, the executive is responsible to the:

పార్లమెంటరీ ప్రభుత్వ వ్యవస్థలో, కార్యనిర్వహక వర్గం వీటికి బాధ్యత వహిస్తుంది:

Options :

Judiciary
న్యాయవ్యవస్థ

898741109397. ✖

Head of State
దేశాధినేత

898741109398. ✖

President
అధ్యక్షుడు

898741109399. ✖

Legislature
శాసనసభ

898741109400. ✔

Paper II

Section Id :	898741366
Section Number :	2
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	100
Number of Questions to be attempted :	100
Section Marks :	200
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	8987411135
Question Shuffling Allowed :	Yes

Question Number : 51 Question Id : 89874127754 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Compared to basalts, granites are:

Options :

898741109401. ✖ Denser and less magnetic

898741109402. ✖ Denser and more magnetic

898741109403. ✖ Lighter and more magnetic

898741109404. ✔ Lighter and less magnetic

Question Number : 52 Question Id : 89874127755 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Where do you find rocks of ferromagnetic character in the Earth?

Options :

898741109405. ✔ Crust

898741109406. ✖ Lower Mantle

898741109407. ✖ Outer Core

898741109408. ✖ Inner Core

Question Number : 53 Question Id : 89874127756 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Plate tectonics is a:

Options :

898741109409. ✖ Conjecture

898741109410. ✖ Opinion

898741109411. ✖ Hypothesis

898741109412. ✔ Theory

Question Number : 54 Question Id : 89874127757 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Volcanic island arcs are associated with :

Options :

898741109413. ✖ Transform boundaries

898741109414. ✖ Divergent boundaries

898741109415. ✖ Ocean-continent convergence

898741109416. ✔ Ocean-ocean convergence

Question Number : 55 Question Id : 89874127758 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which ocean current is responsible for bringing warm water from the equator to the North Atlantic?

Options :

898741109417. ✖ Antarctic Circumpolar Current

898741109418. ✖ Gulf Stream

898741109419. ✔ Kuroshio Current

898741109420. ✖ Labrador Current

Question Number : 56 Question Id : 89874127759 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which is the largest oceanic gyre in the world?

Options :

898741109421. ✖ North Atlantic Gyre

898741109422. ✖ South Pacific Gyre

898741109423. ✖ Indian Ocean Gyre

898741109424. ✔ North Pacific Gyre

Question Number : 57 Question Id : 89874127760 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Great masses of sediment-laden water that are pulled downhill by gravity are called:

Options :

898741109425. ✖ Contour currents

898741109426. ✖ Bottom currents

898741109427. ✔ Turbidity currents

898741109428. ✖ Traction currents

Question Number : 58 Question Id : 89874127761 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which ore type is most characteristically associated with large-tonnage, low-grade disseminated Cu ores linked to shallow porphyritic intrusions?

Options :

898741109429. ✖ Greisen

898741109430. ✖ Skarn

898741109431. ✔ Porphyry

898741109432. ✖ Epithermal

Question Number : 59 Question Id : 89874127762 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Greisen deposits typically form at:

Options :

898741109433. ✖ The basal contacts of mafic intrusions

898741109434. ✔ The top of granitic intrusions

898741109435. ✖ Carbonate-hosted sedimentary sequences

898741109436. ✖ Sea-floor spreading centres

Question Number : 60 Question Id : 89874127763 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

The stratigraphic succession of the Cuddapah was established by

Options :

898741109437. ✖ Medlikot

898741109438. ✔ W. King

898741109439. ✖ R. Bruce Foote

898741109440. ✖ H.C. Jones

Question Number : 61 Question Id : 89874127764 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which metals are most effectively transported in high-salinity basinal brines due to chloride complex formation?

Options :

898741109441. ✖ Fe, Mg, Ca

898741109442. ✔ Pb, Zn, Cu

898741109443. ✖ Si, Al, K

898741109444. ✖ Au, Ag, Pt

Question Number : 62 Question Id : 89874127765 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Base-metal sulfide minerals are stable primarily under:

Options :

898741109445. ✖ Oxidizing conditions

898741109446. ✖ Neutral conditions

898741109447. ✔ Reducing conditions

898741109448. ✖ Variable red ox conditions

Question Number : 63 Question Id : 89874127766 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

The extinction of the ammonoids occurred at the close of

Options :

898741109449. ✖ Triassic

898741109450. ✔ Cretaceous

898741109451. ✖ Jurassic

898741109452. ✖ Eocene

Question Number : 64 Question Id : 89874127767 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Reefs parallel to the shore but separated from it by wide, deep lagoons are called:

Options :

898741109453. ✖ Fringing reefs

898741109454. ✔ Barrier reefs

898741109455. ✖ Atolls

898741109456. ✖ Lagoonal reefs

Question Number : 65 Question Id : 89874127768 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Lead in basinal fluids is most likely sourced during:

Options :

- 898741109457. ✖ Dolomitization of carbonates
- 898741109458. ✔ Replacement of feldspars by clay minerals
- 898741109459. ✖ Dissolution of pyroxenes
- 898741109460. ✖ Breakdown of quartz cements

Question Number : 66 Question Id : 89874127769 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

At low temperatures (<100 °C), sulfate reduction is most commonly facilitated by:

Options :

- 898741109461. ✖ Thermochemical reactions
- 898741109462. ✖ Evaporation of connate brines
- 898741109463. ✔ Thermodesulfobacterium
- 898741109464. ✖ Hydrocarbon oxidation alone

Question Number : 67 Question Id : 89874127770 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Which of the following best describes dilatant veins?

Options :

898741109465. ✖ Form by local redistribution of fluids

898741109466. ✔ Form by precipitation in open or fluid-filled space

898741109467. ✖ Always associated with metasomatism

898741109468. ✖ Require hydro fracture

Question Number : 68 Question Id : 89874127771 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Ironstones are classified as ore deposits when:

Options :

898741109469. ✖ They contain less than 5 wt% FeO

898741109470. ✔ They contain more than 15 wt% FeO

898741109471. ✖ They contain hematite and magnetite only

898741109472. ✖ They are banded in texture

Question Number : 69 Question Id : 89874127772 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Lithium is dominantly extracted from:

Options :

898741109473. ✖ Igneous pegmatites

898741109474. ✔ Continental evaporite brines

898741109475. ✖ Black shale kerogen layers

898741109476. ✖ Banded iron formations

Question Number : 70 Question Id : 89874127773 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

What is the minimum organic carbon content typically found in black shales?

Options :

898741109477. ✖ 0.1 %

898741109478. ✔ 0.5 %

898741109479. ✖ 1.0 %

898741109480. ✖ 2.0 %

Question Number : 71 Question Id : 89874127774 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Which epithermal deposit type is closely associated with volcanic centres and hosted in intensely altered rocks?

Options :

898741109481. ✖ Low-sulfidation epithermal

898741109482. ✔ High-sulfidation epithermal

898741109483. ✖ VHMS

898741109484. ✖ Porphyry

Question Number : 72 Question Id : 89874127775 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

The Vine-Matthews hypothesis explains the origin of :

Options :

898741109485. ✖ Polar wandering

898741109486. ✔ Seafloor magnetic anomalies

898741109487. ✖ Continental drift

898741109488. ✖ Mid-ocean ridges

Question Number : 73 Question Id : 89874127776 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

The Humboldt Current is indirectly linked with ore formation of:

Options :

898741109489. ✖ Manganese nodules

898741109490. ✔ Nitrate and iodine deposits

898741109491. ✖ Phosphorites

898741109492. ✖ Evaporitic Li brines

Question Number : 74 Question Id : 89874127777 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

The typical sandstone of Eugeosyncline is

Options :

898741109493. ✖ Orthoquartzite

898741109494. ✖ Arkose

898741109495. ✖ Grit

898741109496. ✔ Graywacke

Question Number : 75 Question Id : 89874127778 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

The Precambrian shield:

Options :

898741109497. ✖ Contains geologically young rocks
898741109498. ✖ Occurs only in mountainous regions
898741109499. ✔ Is a complex of metamorphic and plutonic rocks exposed over a large area
898741109500. ✖ All of the above

Question Number : 76 Question Id : 89874127779 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which ore type supplies the majority of the world's HREEs(Heavy Rare-Earth Elements)?

Options :

898741109501. ✖ Carbonatites
898741109502. ✔ Ion adsorption clay
898741109503. ✖ Pegmatites
898741109504. ✖ Laterite Ni–Co deposits

Question Number : 77 Question Id : 89874127780 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following is true for all sulfide-bearing ore bodies?

Options :

- 898741109505. ✖ They are unaffected by weather in process
- 898741109506. ✖ They are always preserved in hypogene state
- 898741109507. ✔ They are modified to some degree by supergene weathering
- 898741109508. ✖ They cannot be enriched at surface

Question Number : 78 Question Id : 89874127781 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following precipitation-type supergene ores is formed in desert palaeochannels and calcretes?

Options :

- 898741109509. ✖ Magnesite
- 898741109510. ✔ Uranium
- 898741109511. ✖ Copper
- 898741109512. ✖ Bauxite

Question Number : 79 Question Id : 89874127782 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Which of the following is not characteristic of a mountain belt that formed through ocean-continent convergence?

Options :

898741109513. ✖ Fold and thrust belts

898741109514. ✖ Thick accumulations of marine sediment

898741109515. ✔ Prevalence of normal faults over reverse faults

898741109516. ✖ Metamorphism

Question Number : 80 Question Id : 89874127783 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

A structure in which the beds dip away from a central point and the oldest rocks are exposed in the centre is called a(n):

Options :

898741109517. ✖ Basin

898741109518. ✖ Recumbent Fold

898741109519. ✔ Structural dome

898741109520. ✖ Syncline

Question Number : 81 Question Id : 89874127784 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

An elongated area marking the site of mountain building is a:

Options :

898741109521. ✖ Cyclothem

898741109522. ✔ Mobile belt

898741109523. ✖ Platform

898741109524. ✖ Shield

Question Number : 82 Question Id : 89874127785 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Magmatic-hydrothermal fluids are released mainly by:

Options :

898741109525. ✖ Evaporation during weathering

898741109526. ✔ Exsolution during crystallization

898741109527. ✖ Diffusion through solidified magma

898741109528. ✖ Interaction with meteoric waters

Question Number : 83 Question Id : 89874127786 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

A major transgressive-regressive cycle bounded by craton-wide unconformities is a(n):

Options :

898741109529. ✖ Biostratigraphic unit

898741109530. ✔ Cratonic sequence

898741109531. ✖ Shallow sea

898741109532. ✖ Cyclothem

Question Number : 84 Question Id : 89874127787 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which type of hydrothermal fluids have pressures close to lithostatic pressures?

Options :

898741109533. ✖ Ocean waters

898741109534. ✖ Meteoric waters

898741109535. ✔ Magmatic fluids

898741109536. ✖ Connate waters

Question Number : 85 Question Id : 89874127788 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

The precipitation of ore minerals in hydrothermal systems is primarily controlled by:

Options :

- 898741109537. ✖ Cooling rate of magma
- 898741109538. ✔ Solubility changes
- 898741109539. ✖ Grain size of host rock minerals
- 898741109540. ✖ Surface tension of migrating fluids

Question Number : 86 Question Id : 89874127789 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Direct field observation of ore formation is possible mainly in:

Options :

- 898741109541. ✖ Archean gold lodes
- 898741109542. ✖ Granitic pegmatites
- 898741109543. ✔ Volcanic fumaroles and sea –floor settings
- 898741109544. ✖ Orogenic belts

Question Number : 87 Question Id : 89874127790 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Meteoric waters in hydrothermal systems originate from:

Options :

898741109545. ✖ Differentiation

898741109546. ✔ Precipitation

898741109547. ✖ Devolatilization

898741109548. ✖ Evaporation

Question Number : 88 Question Id : 89874127791 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Hydrothermal alteration typically affects:

Options :

898741109549. ✖ Only the immediate ore body

898741109550. ✔ Volume of rock many times that of the ore body

898741109551. ✖ Exclusively host-rocks adjacent to faults

898741109552. ✖ Only metasomatic halos around veins

Question Number : 89 Question Id : 89874127792 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

The economically valuable deposit in a cyclothem is:

Options :

898741109553. ✖ Metallic ore

898741109554. ✔ Coal

898741109555. ✖ Carbonate

898741109556. ✖ Evaporites

Question Number : 90 Question Id : 89874127793 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

The main distinguishing feature separating surface-derived and depth-derived Hydrothermal fluids is:

Options :

898741109557. ✖ Temperature

898741109558. ✔ Pressure regime

898741109559. ✖ Salinity

898741109560. ✖ Presence of hydrocarbons

Question Number : 91 Question Id : 89874127794 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Very low degrees of partial melting in the mantle enrich melts in :

Options :

898741109561. ✖ Compatible elements

898741109562. ✔ Incompatible elements

898741109563. ✖ Chalcophile elements only

898741109564. ✖ Essential mantle minerals (Mg, Fe, Si,Al)

Question Number : 92 Question Id : 89874127795 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Quartz is abundant in veins because:

Options :

898741109565. ✖ It has very low solubility at all conditions

898741109566. ✖ Its solubility increases with increasing T and P

898741109567. ✔ Its solubility decreases with decreasing T and P

898741109568. ✖ It forms only in closed vein systems

Question Number : 93 Question Id : 89874127796 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

The diamond plane lattice is also called

Options :

- 898741109569. ✖ Hexagonal lattice
- 898741109570. ✖ Oblique lattice
- 898741109571. ✔ Centred rectangle lattice
- 898741109572. ✖ Parallelogram lattice

Question Number : 94 Question Id : 89874127797 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following best explains explosive hydrothermal breccias?

Options :

- 898741109573. ✖ Collapse into karst cavities
- 898741109574. ✔ Flashing of fluids to steam
- 898741109575. ✖ Abrasion along fault planes
- 898741109576. ✖ Pervasive metasomatism

Question Number : 95 Question Id : 89874127798 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Bornite is an ore of

Options :

898741109577. ✓ ☒ Copper

898741109578. ✗ ☐ Iron

898741109579. ✗ ☐ Manganese

898741109580. ✗ ☐ Nickel

Question Number : 96 Question Id : 89874127799 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Diamond deposits in kimberlites and lamproites form because:

Options :

898741109581. ✗ ☐ Diamonds crystallise from late-stage melts

898741109582. ✗ ☐ Sulfide droplets trap carbon at shallow depths

898741109583. ✓ ☒ Diamonds are carried from depths where they are stable

898741109584. ✗ ☐ Graphite alters to diamond during surface emplacement

Question Number : 97 Question Id : 89874127800 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Which of the following is NOT an example of groundwater erosion?

Options :

898741109585. ✖ Karst topography

898741109586. ✔ Stalactites

898741109587. ✖ Sink holes

898741109588. ✖ Caves

Question Number : 98 Question Id : 89874127801 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

In crystalline rocks, the primary pathways for hydrothermal fluid migration are:

Options :

898741109589. ✖ Pore spaces

898741109590. ✖ Bedding planes

898741109591. ✔ Secondary structures

898741109592. ✖ Vesicles in basalts

Question Number : 99 Question Id : 89874127802 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Common metal transporting ligand in hydrothermal fluids:

Options :

898741109593. ✓ Cl^-

898741109594. ✗ NO_3^-

898741109595. ✗ PO_4^{3-}

898741109596. ✗ SiO_4^{4-}

Question Number : 100 Question Id : 89874127803 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Breccias that host ore bodies are most commonly:

Options :

898741109597. ✗ Tabular and parallel to bedding

898741109598. ✓ Pipe-shaped and sub-vertical

898741109599. ✗ Layered and concordant with strata

898741109600. ✗ Lens-shaped and shallow-dipping

Question Number : 101 Question Id : 89874127804 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

At equilibrium, the stable mineral assemblage (paragenesis) of a rock is primarily controlled by:

Options :

898741109601. ✖ Crystal size and orientation
898741109602. ✖ Degree of foliation and lineation
898741109603. ✖ Both (a) and (b)
898741109604. ✔ None of the above

Question Number : 102 Question Id : 89874127805 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Block-faulting may be due to:

- i. Isostatic adjustment
- ii. Lithospheric delamination
- iii. Gravitational collapse
- iv. Subduction

Options :

898741109605. ✖ Only i
898741109606. ✔ Both i & iii
898741109607. ✖ Both ii & iii
898741109608. ✖ Both iii & iv

Question Number : 103 Question Id : 89874127806 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Which of the following facies are high-pressure types?

- i. Blueschist facies
- ii. Greenschist facies
- iii. Eclogite facies
- iv. Granulite facies
- iii. Zeolite facies

Options :

898741109609. ✖ i, ii and iii

898741109610. ✖ iii, and iv

898741109611. ✖ i, iii and iv

898741109612. ✔ i and iii

Question Number : 104 Question Id : 89874127807 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Which of the following are true about continuous metamorphic reactions?

- i. They span an interval of metamorphic grade
- ii. They involve systematic compositional changes in phases
- iii. They occur at a single fixed temperature
- iv. They rearrange tie-lines in compatibility diagrams
- v. They stop once the first reactant is consumed

Options :

898741109613. ✔ i, ii and iv

898741109614. ✖ ii, iv and v

898741109615. ✖ iii, iv and v

898741109616. ✖ i, ii, iii and v

Question Number : 105 Question Id : 89874127808 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Deformation is strictly the sum of:

- i. Strain
- ii. Rigid rotation
- iii. Translation

Options :

898741109617. ✖ i and ii

898741109618. ✖ ii and iii

898741109619. ✖ only ii

898741109620. ✔ i, ii and iii

Question Number : 106 Question Id : 89874127809 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Which of the following evolutionary trends characterize primates?

- i. Stereoscopic vision
- ii. Change in overall skeletal structure
- iii. Decrease in brain size
- iv. Grasping hand with opposable thumb

Options :

898741109621. ✔ i, ii and iv

898741109622. ✖ i, iii and iv

898741109623. ✖ ii and iii

898741109624. ✖ ii, iii and iv

Question Number : 107 Question Id : 89874127810 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

What is the total length of the coastline in India?

Options :

898741109625. ✖ 4689 km

898741109626. ✖ 6320 km

898741109627. ✔ 7516 km

898741109628. ✖ 7340 km

Question Number : 108 Question Id : 89874127811 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Jabalpur Formation rocks are overlain by

Options :

898741109629. ✖ Deccan Traps

898741109630. ✖ Tiki Formation

898741109631. ✖ Lameta beds

898741109632. ✔ Parora Formation

Question Number : 109 Question Id : 89874127812 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

An organism must possess which of the following during at least part of its life cycle to be classified a chordate ?

- i. Notochord
- ii. Lungs
- iii. Dorsal hollow nerve cord
- iv. Pharyngeal slits
- v. Ventral solid nerve cord

Options :

898741109633. ✖ i, ii and iv

898741109634. ✖ ii, iv and v

898741109635. ✖ i, iii and v

898741109636. ✔ i, iii and iv

Question Number : 110 Question Id : 89874127813 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Arrange the following geological in correct chronological order, from oldest to youngest.

- i. Devonian
- ii. Jurassic
- iii. Cambrian
- iv. Permian

Options :

898741109637. ✔ iii – i – iv – ii

898741109638. ✖ iii – ii – i – iv

898741109639. ✖ i – iii – iv – ii

898741109640. ✖ i – ii – iii – iv

Question Number : 111 Question Id : 89874127814 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following factors can increase the cost of ore extraction?

- i. Deeply buried ore bodies requiring underground mining
- ii. Thin vein-shaped ore bodies
- iii. Presence of deleterious elements such as phosphorus in iron ore
- iv. Sub-spherical shallow ore bodies
- v. High stripping ratio in open-pit mines

Options :

898741109641. ✓ i-ii-iii-v

898741109642. ✗ i-ii-iv-v

898741109643. ✗ ii-iv-v

898741109644. ✗ ii-iii-iv

Question Number : 112 Question Id : 89874127815 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following statements about aerial photographs are correct?

- i. Larger photo scales provide more detail but cover less ground area.
- ii. Vertical exaggeration helps in interpreting slopes, dips and unit thickness
- iii. Radial distortion causes objects to lean inward toward the photo centre.
- iv. Spectral distortion(vignetting) produces darkening toward the edge of a photo.
- v. Flight lines are usually laid out with a minimum of 10% side lap between adjacent lines.

Options :

898741109645. ✖ i, ii and iv

898741109646. ✔ i, ii, iv and v

898741109647. ✖ i, iii and v

898741109648. ✖ i, iii and iv

Question Number : 113 Question Id : 89874127816 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Which of the following are post-kinematic features?

- i. Helicitic texture
- ii. Polygonal arc
- iii. Spiral porphyroblast
- iv. Pressure shadow
- v. Wrapped foliation

Options :

898741109649. ✖ i,ii,iii,iv,v

898741109650. ✔ i, ii, iii

898741109651. ✖ i, iii, v

898741109652. ✖ ii and iv

Question Number : 114 Question Id : 89874127817 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Consider the following two statements:

Statement I: A flat-lying ore body at or near the surface is cheaper to mine per tonne of rock than a deep, thin vein deposit

Statement II: Open-pit mining always remains cheaper than underground mining regardless of ore body depth

Options :

898741109653. ✖ Statements I and II are true, II explains I

898741109654. ✖ Statement I and II are false, I explains II

898741109655. ✔ Statement II is false; I is true

898741109656. ✖ Statement I is false; II is true

Question Number : 115 Question Id : 89874127818 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Consider the following two statements:

Statement I: Increasing source-detector separation in a geophysical survey causes the anomaly to extend over a wider area, i.e. longer wavelength

Statement II: This also increases the amplitude of the anomaly, making it easier to detect at depth.

Options :

898741109657. ✖ Statements I and II are true.

898741109658. ✖ Statements I and II are false.

898741109659. ✔ Statement II is false; I is true.

898741109660. ✖ Statement I is false; II is true.

Question Number : 116 Question Id : 89874127819 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Consider the following two statements:

Statement I: The temperature of a devolatilization reaction depends on the partial pressure of the volatile species involved.

Statement II: Therefore, devolatilization reactions always provide a precise and reliable measure of metamorphic grade, regardless of fluid composition.

Options :

898741109661. ✖ Statements I and II are true.

898741109662. ✖ Statements I and II are false.

898741109663. ✔ Statement II is false; I is true.

898741109664. ✖ Statement I is false; II is true.

Question Number : 117 Question Id : 89874127820 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Consider the following two statements:

Statement I: In metapelites, the grade at which a mineral appears or disappears is usually controlled by the rock's bulk composition

Statement II: Therefore, mineral appearances/disappearances typically mark sharp, discontinuous changes in all pelitic rocks at the same metamorphic grade.

Options :

898741109665. ✖ Statements I and II are true.

898741109666. ✖ Statements I and II are false.

898741109667. ✔ Statement II is false; I is true.

898741109668. ✖ Statement I is false; II is true.

Question Number : 118 Question Id : 89874127821 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Consider the following two statements:

Statement I: A porphyroblast is a large metamorphic mineral grown in a finer-grained matrix.

Statement II: A poikiloblast is a porphyroblast with abundant inclusions.

Options :

898741109669. ✓ Statements I and II are true.

898741109670. ✗ Statements I and II are false.

898741109671. ✗ Statement II is false; I is true.

898741109672. ✗ Statement I is false; II is true.

Question Number : 119 Question Id : 89874127822 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Consider the following two statements:

Statement I: Radiometric dating of a biotite in a sandstone yields the time when the sandstone was formed.

Statement II: The radiometric clock in the detrital mineral starts when it crystallizes below its closure temperature in its source rock.

Options :

898741109673. ✗ Statements I and II are true, II explains I.

898741109674. ✗ Statements I and II are true, I explains II.

898741109675. ✗ Statement II is false; I is true.

898741109676. ✓ Statement I is false; II is true.

Question Number : 120 Question Id : 89874127823 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

The ocean surface currents follow clockwise circulatory paths in the northern Pacific and Atlantic because of

Options :

- 898741109677. ✓ Coriolis force
- 898741109678. ✗ Convergence and divergence movements
- 898741109679. ✗ Impact of prevailing winds
- 898741109680. ✗ Density differences in seawater

Question Number : 121 Question Id : 89874127824 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Consider the following two statements:

Statement I: If a mineral loses daughter isotopes during metamorphism, the radiometric date obtained will be older than the actual age of the rock.

Statement II: The loss of daughter isotopes increases the measured daughter –to – parent ratios, which actually makes the calculated age appear younger than the true age.

Options :

- 898741109681. ✗ Statements I and II are true.
- 898741109682. ✓ Statements I and II are false.
- 898741109683. ✗ Statement II is false; I is true.
- 898741109684. ✗ Statement I is false; II is true.

Question Number : 122 Question Id : 89874127825 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Consider the following two statements:

Statement I: If a radioactive element has a half-life of 32 million years, then after 96 million years, one-eighth of the original parent material will remain.

Statement II: Radiocarbon dating is effective only for dating once-living materials younger than about 50,000 years.

Options :

898741109685. ✓ Statements I and II are true.

898741109686. ✗ Only statement II is true.

898741109687. ✗ Statement I and II are true, II explains I.

898741109688. ✗ Only statement I is true.

Question Number : 123 Question Id : 89874127826 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Consider the following statements:

Statement I : The variation of the Earth's magnetic field is stronger during the day than that during the night.

Statement II: Magnetic materials become less magnetic on heating.

Options :

898741109689. ✗ Statements I and II are true, II explains I.

898741109690. ✓ Statements I and II are true, but II does not explain I.

898741109691. ✗ Statement I and II are false.

898741109692. ✗ Statement I is false; II is true.

Question Number : 124 Question Id : 89874127827 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Consider the following statements:

Statement I: Glaciers move mostly by plastic flow, in which ice deforms internally under its own weight.

Statement II: Abrasion and plucking are the main mechanisms by which glaciers flow.

Options :

898741109693. ✖ Statements I and II are true, II explains I.

898741109694. ✖ Statements I and II are true, II does not explain I.

898741109695. ✖ Statement I is false; II is true.

898741109696. ✔ Statement II is false; I is true.

Question Number : 125 Question Id : 89874127828 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Consider the following statements:

Statement I: A medial moraine forms where two lateral moraines merge.

Statement II: Lateral moraines are ridges of debris that accumulate along the sides of a glacier.

Options :

898741109697. ✔ Statements I and II are true.

898741109698. ✖ Statements I and II are false.

898741109699. ✖ Statement I is false; II is true.

898741109700. ✖ Statement II is false; I is true.

Question Number : 126 Question Id : 89874127829 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

The Rapakivi texture is essentially

Options :

898741109701. ✖ Poikilitic texture

898741109702. ✔ Porphyritic texture

898741109703. ✖ Intergrowth texture

898741109704. ✖ volcanic texture

Question Number : 127 Question Id : 89874127830 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Consider the following statements:

Statement I: An artesian system develops when an aquifer is confined above and below by aquicludes.

Statement II: Confinement reduces pressure in the aquifer, allowing water to rise above the level of its recharge area when tapped by a well.

Options :

898741109705. ✖ Statements I and II are true, II explains I.

898741109706. ✖ Statements I and II are true, II does not explain I.

898741109707. ✖ Statement I is false; II is true.

898741109708. ✔ Statement II is false; I is true.

Question Number : 128 Question Id : 89874127831 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Consider the following statements:

Statement I: Removal of clay, silt and sand particles from the land surface by wind is called *deflation*.

Statement II: If the sediment at the land surface is made up only of fine particles, the erosion of these particles by the wind can elevate the land surface substantially.

Options :

898741109709. ✖ Statements I and II are true, II explains I.

898741109710. ✖ Statements I and II are true, II does not explain I.

898741109711. ✖ Statement I is false; II is true.

898741109712. ✔ Statement II is false; I is true.

Question Number : 129 Question Id : 89874127832 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Consider the following statements:

Statement I: Normal faults are associated with horizontal extension of the crust.

Statement II: In a normal fault, the hanging wall block moves downward relative to the footwall block.

Options :

898741109713. ✔ Statements I and II are true, II explains I.

898741109714. ✖ Statements I and II are true, II does not explain I.

898741109715. ✖ Statement I is false; II is true.

898741109716. ✖ Statement II is false; I is true.

Question Number : 130 Question Id : 89874127833 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Consider the following statements:

Statement I: The porosity of Earth materials determines how easily fluids move through them.

Statement II: A material may have high porosity but still low permeability if the pores are not well connected.

Options :

898741109717. ✖ Statements I and II are true, II explains I.

898741109718. ✖ Statements I and II are true, II does not explain I.

898741109719. ✔ Statement I is false; II is true.

898741109720. ✖ Statement II is false; I is true.

Question Number : 131 Question Id : 89874127834 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Consider the following statements:

Statement I: The water table is the surface that separates the zone of saturation.

Statement II: The capillary fringe lies immediately above the water table, where water is drawn upward into pores by surface tension.

Options :

898741109721. ✖ Statements I and II are true, II explains I.

898741109722. ✔ Statements I and II are true, II does not explain I.

898741109723. ✖ Statement I is false; II is true.

898741109724. ✖ Statement II is false; I is true.

Question Number : 132 Question Id : 89874127835 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Consider the following statements:

Statement I: Vegetation generally decreases slope stability by binding soil particles and reducing surface erosion.

Statement II: In some cases, vegetation can decrease slope stability because trees add weight to slopes and roots may allow water to infiltrate deeper, raising pore-water pressure.

Options :

898741109725. ✖ Statements I and II are true, II explains I.

898741109726. ✖ Statements I and II are true, II does not explain I.

898741109727. ✔ Statement I is false; II is true.

898741109728. ✖ Statement II is false; I is true.

Question Number : 133 Question Id : 89874127836 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

The correct sequence of the evolution of cephalopod sutures is

Options :

898741109729. ✖ Nautiloid-Goniatite-Ammonite-Ceratite

898741109730. ✖ Nautiloid-Ceratite-Goniatite-Ammonite

898741109731. ✔ Nautiloid-Goniatite-Ceratite-Ammonite

898741109732. ✖ Goniatite-Ceratite-Nautiloid-Ammonite

Question Number : 134 Question Id : 89874127837 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Consider the following statements:

Statement I: The Gibbs free energy of elements in their standard state at 298.15 K and 0.1 MPa is defined as zero.

Statement II: This reference state allows us to calculate only changes in Gibbs free energy, since absolute values of G cannot be measured.

Options :

898741109733. ✓ Statements I and II are true, II explains I.

898741109734. ✗ Statements I and II are true, II does not explain I.

898741109735. ✗ Statement I is false; II is true.

898741109736. ✗ Statement II is false; I is true.

Question Number : 135 Question Id : 89874127838 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Consider the following statements:

Statement I: The phase rule ($F = C - \phi + 2$) applies only to systems at equilibrium.

Statement II: At low temperatures, any number of phases can coexist even without equilibrium.

Options :

898741109737. ✗ Statements I and II are true, II explains I.

898741109738. ✓ Statements I and II are true, II does not explain I.

898741109739. ✗ Statement I is false; II is true.

898741109740. ✗ Statement II is false; I is true.

Question Number : 136 Question Id : 89874127839 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Consider the following statements:

Statement I: Groundwater flows from areas of high hydraulic head to areas of low hydraulic head.

Statement II: Groundwater always flows from high elevation to low elevation, regardless of pressure conditions.

Options :

Statements I and II are true, II explains I.

898741109741. ✖

Statements I and II are true, II does not explain I.

898741109742. ✖

Statement I is false; II is true.

898741109743. ✖

Statement II is false; I is true.

898741109744. ✔

Question Number : 137 Question Id : 89874127840 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Consider the following statements:

Statement I: Black-and-white satellite imagery, especially in the near-infrared or red spectrum, can sometimes highlight features that may be less visible in colour imagery

Statement II: False-colour infrared imagery eliminates most atmospheric scattering (haze) because it excludes the blue band.

Options :

Statements I and II are true, II explains I.

898741109745. ✖

Statements I and II are true, II does not explain I.

898741109746. ✔

Statement I is false; II is true.

898741109747. ✖

Statement II is false; I is true.

898741109748. ✖

Question Number : 138 Question Id : 89874127841 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Consider the following statements:

Statement I: Larger photo scales provide more ground detail, but cover less area per frame.

Statement II: Halving the scale from 1:24,000 to 1:48,000 quadruples the area covered, and requires only one-quarter the number of frames.

Options :

898741109749. ✓ Statements I and II are true, II explains I.

898741109750. ✗ Statements I and II are true, II does not explain I.

898741109751. ✗ Statement I is false; II is true.

898741109752. ✗ Statement II is false; I is true.

Question Number : 139 Question Id : 89874127842 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Consider the following statements:

Statement I: Stopping requires that country rock be denser than the magma, and that blocks be large enough to sink in a viscous melt.

Statement II: The scarcity of stopped xenoliths in plutons suggests stopping is not a major process of magma emplacement.

Options :

898741109753. ✗ Statements I and II are true, II explains I.

898741109754. ✓ Statements I and II are true, II does not explain I.

898741109755. ✗ Statement I is false; II is true.

898741109756. ✗ Statement II is false; I is true.

Question Number : 140 Question Id : 89874127843 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Consider the following statements:

Statement I: Isotopes of an element differ in the number of neutrons in their nuclei.

Statement II: Because neutrons have no charge, changing their number does not affect chemical properties of the atom.

Options :

Statements I and II are true, II explains I.

898741109757. ✓

Statements I and II are true, II does not explain I.

898741109758. ✗

Statement I is false; II is true.

898741109759. ✗

Statement II is false; I is true.

898741109760. ✗

Question Number : 141 Question Id : 89874127844 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Consider the following statements:

Statement I: Heavy isotopes fractionate during partial melting and crystallization.

Statement II: Isotopic signatures of oceanic basalts reflect the mantle source rather than melting processes.

Options :

Statements I and II are true, II explains I.

898741109761. ✗

Statements I and II are true, II does not explain I.

898741109762. ✗

Statement I is false; II is true.

898741109763. ✓

Statement II is false; I is true.

898741109764. ✗

Question Number : 142 Question Id : 89874127845 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Match the following:

- | | |
|---------------------|---|
| a. Stopping | i. Radial expansion of magma chamber |
| b. Solution stoping | ii. Rise of magma in ductile rocks |
| c. Diapirism | iii. Melting of roof and crystallization at floor |
| d. Ballooning | iv. Roof cracks sink as xenoliths |

Options :

898741109765. ✖ a-iii, b-i, c-iv, d-ii

898741109766. ✔ a-iv, b-iii, c-ii, d-i

898741109767. ✖ a-i, b-iv, c-iii, d-ii

898741109768. ✖ a-iii, b-iv, c-i, d-ii

Question Number : 143 Question Id : 89874127846 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Match the following:

- | | |
|----------------|--|
| a. Berm | i. Speed at which a wave crest travels |
| b. Celerity | ii. Distance between two successive crests |
| c. Fetch | iii. Flat area on a beach formed by wave deposition |
| d. Wavelength | iv. Distance that wind blows over a continuous water surface |
| e. Photic zone | v. Sunlit layer of the ocean where photosynthesis occurs |

Options :

898741109769. ✔ a-iii, b-i, c-iv, d-ii, e-v

898741109770. ✖ a-iv, b-iii, c-i, d-ii, e-v

898741109771. ✖ a-i, b-iv, c-iii, d-ii, e-v

898741109772. ✖ a-iii, b-iv, c-i, d-ii, e-v

Question Number : 144 Question Id : 89874127847 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Match the following:

- | | |
|-------------|--|
| a. Bajada | i. Flat, dry, lake-bed in an arid basin |
| b. Playa | ii. Broad slope of merged alluvial fans at a mountain base |
| c. Pediment | iii. Gently sloping erosional rock surface at mountain front |
| d. Arroyo | iv. Steep-sided gully or dry stream channel in a desert |

Options :

898741109773. ✓ a-ii, b-i, c-iii, d-iv

898741109774. ✗ a-i, b-ii, c-iv, d-iii

898741109775. ✗ a-iii, b-iv, c-i, d-ii

898741109776. ✗ a-iv, b-iii, c-ii, d-i

Question Number : 145 Question Id : 89874127848 Question Type : MCQ Option Shuffling : No Correct Marks : 2 Wrong Marks : 0

Match the following:

- | | |
|----------------------|---------------------------------------|
| a. Valley train | i. Bowl –shaped depression |
| b. Kame | ii. Hill of sand/gravel |
| c. Ice-scoured plain | iii. Polished bedrock surface |
| d. Cirque | iv. Head of glacial valley depression |
| e. Stratified drift | v. Layered meltwater sediments |

Options :

898741109777. ✗ a-v, b-ii, c-iii, d-i, e-iv

898741109778. ✓ a-ii, b-iii, c-iv, d-i, e-v

898741109779. ✗ a-iv, b-v, c-iii, d-ii, e-i

898741109780. ✗ a-i, b-ii, c-iii, d-iv, e-v

Question Number : 146 Question Id : 89874127849 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Match the following:

- | | |
|----------------|---|
| a. Abrasion | i. Dissolution of soluble minerals by running water |
| b. Solution | ii. Bouncing of sand grains |
| c. Saltation | iii. Grinding of bedrock by sand and gravel load |
| d. Sheetwash | iv. Rivers and stream sediment deposition |
| e. Alluviation | v. Unchannelized flow of fine-sediment laden water across a Slope |

Options :

a-iii, b-i, c-ii, d-v, e-iv

898741109781. ✓

898741109782. ✗ a-i, b-iii, c-ii, d-iv, e-v

898741109783. ✗ a-ii, b-i, c-iii, d-v, e-iv

898741109784. ✗ a-ii, b-iii, c-i, d-v, e-iv

Question Number : 147 Question Id : 89874127850 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Match the following:

- | | |
|----------------------|--|
| a. Incised stream | i. Multiple channels that divide and rejoin around bars |
| b. Superposed stream | ii. Deeply cut valley, often due to uplift |
| c. Braided stream | iii. Stream pattern developed irrespective of underlying structure |
| d. Sinuous stream | iv. Single channel with broad, sweeping bends |
| e. Meandering stream | v. Single channel with gentle curves less winding than meanders |

Options :

a-ii, b-iii, c-i, d-v, e-iv

898741109785. ✓

898741109786. ✖ a-iii, b-ii, c-i, d-iv, e-v

898741109787. ✖ a-ii, b-i, c-iv, d-v, e-iii

898741109788. ✖ a-iv, b-v, c-ii, d-i, e-iii

Question Number : 148 Question Id : 89874127851 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Match the following:

- | | |
|---------------------|---------------------------|
| a. Coarse texture | i. Clustering of trees |
| b. Smooth texture | ii. Scattered vegetation |
| c. Fine texture | iii. Alluvial deposits |
| d. Speckled texture | iv. Closely spaced joints |
| | v. Bushy vegetation |

Options :

898741109789. ✖ a-i, b-iv, c-v, d-ii

898741109790. ✖ a-ii, b-v, c-iv, d-i

898741109791. ✖ a-ii, b-v, c-iii, d-i

898741109792. ✔ a-i, b-iii, c-v, d-ii

Question Number : 149 Question Id : 89874127852 Question Type : MCQ Option Shuffling : No
Correct Marks : 2 Wrong Marks : 0

Match the following:

- | | |
|--------------------------|--|
| a. Scale | i. Vertical ratio differs from horizontal |
| b. Vertical exaggeration | ii. Darkening towards photo edges |
| c. Radial distortion | iii. Ratio changes with altitude or focal length |
| d. Spectral distortion | iv. Objects lean outward from photo centre |
| e. Flight lines | v. Sequential photos with side lap coverage |

Options :

898741109793. ✖ a-i, b-ii, c-iii, d-iv, e-v

898741109794. ✔ a-iii, b-i, c-iv, d-ii, e-v

898741109795. ✖ a-ii, b-iii, c-i, d-v, e-iv

898741109796. ✖ a-v, b-i, c-iv, d-ii, e-iii

Match the following:

- | | |
|----------------------------------|--|
| a. Hotspots | i. H_2O lowers solidus T to generate melts |
| b. Subduction zones | ii. Ultramafic volcanic rocks |
| c. Partial melting of lherzolite | iii. Produces basalt as primary melts |
| d. Komatiites | iv. Simplest solution |
| e. Ockham's razor | v. Abnormally high geothermal gradients |

Options :

898741109797. ✖ a-i, b-ii, c-iii, d-iv, e-v

898741109798. ✔ a-v, b-i, c-iii, d-ii, e-iv

898741109799. ✖ a-ii, b-iii, c-i, d-v, e-iv

898741109800. ✖ a-v, b-i, c-iii, d-iv, e-ii