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INTEGRAL COACH FACTORY
RECRUITMENT AGAINST CULTURAL QUOTA

Date: 09.03.2017

Duration: 45 minutes

Total Marks: 50 x 1 = 50 marks

INSTRUCTIONS

1. Read all the instructions carefully before answering the questions.
2. All the questions carry equal mark, i.e. one mark for each question.
3. Use the time judiciously. If you do not know the answer for any question, skip it & go for the next question and comeback for the left over questions.
4. **NEGATIVE MARKS:**
 - (i) There will be negative marking for wrong answers.
 - (ii) For wrong answers, marks will be deducted @ $1/3^{\text{rd}}$ mark for every wrong answer, viz. One wrong = 0.33 marks, two wrongs = 0.67 marks & three wrongs = 1 mark will be deducted.
 - (iii) However, no deduction will be made for not answered questions.
5. **ANSWER SHEET:**
 - (i) Candidates will be supplied OMR Answer sheets for answering the questions.
 - (ii) Blue or Black ballpoint pen only to be used for darkening the answers.
 - (iii) Do not darken more than one bubble for the same question.
 - (iv) Darkening more than one bubble for the same question will result in declaring the answer as wrong answer and consequently will result in negative marking.
 - (v) How to darken the bubble has been explained in detail in the instructions issued along with OMR sheets.
6. You have to write your Name & Roll No. only at the earmarked location only and not in any other location.
7. The OMR Answer sheet contains two sheets and both the sheets are to be preserved together.
8. Under any circumstances, the duplicate OMR Answer sheet **should not** be separated.
9. In case of doubt, if any, in Hindi language, the English version prevails.

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- (1) _____ helps plant leaves to capture the energy of the Sunlight?
(1) Stomata (3) Chlorophyll
(2) Cytoplasm (4) None of the above.
- (2) The plants which take nutrients in solution from dead and decaying matter is called as _____
(1) Autotrophs (3) Heterotrophs
(2) Saprotrophs (4) None of the above
- (3) The secretion from liver that plays an important role in the digestion of fats is called as _____
(1) Bile (3) Saliva
(2) Villi (4) None of the above
- (4) Blood clot is formed because of the presence of _____ in the blood?
(1) Red blood cells (3) Platelets
(2) White blood cells (4) Haemoglobin
- (5) Which type of mirror is used as side view mirror in vehicles?
(1) Concave (3) Magnifying glass
(2) Convex (4) Prism
- (6) The process by which a solid gets converted directly into its gaseous state or gas is converted directly into its solid state is called as _____
(1) Crystallization (3) Sublimation
(2) Evaporation (4) None of the above
- (7) Which is the instrument used for measuring the speed of the wind?
(1) Ammeter (3) Goniometer
(2) Anemometer (4) Galvanometer
- (8) Which optical device is used in submarines to view the ships on the surface?
(1) Periscope (3) Oscilloscope
(2) Saccharometer (4) Stroboscope
- (9) One finds it difficult to walk on ice than on a concrete road because _____
(1) ice is soft and spongy whereas concrete is hard.
(2) the friction between the ice and the feet is less than that between the concrete and the feet.
(3) there is more friction on ice than on concrete
(4) None of the above.

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- (10) The surface of the water in a pond remains cool even on a hot day because _____
- (1) water evaporates at the surface and evaporation causes cooling.
 - (2) the heat absorbed at the surface is transmitted downwards.
 - (3) water in a contact with the bottom of the pond becomes cool and raises to the surface due to convection.
 - (4) None of the above.
- (11) A steel ball floats on mercury because _____
- (1) mercury does not allow any metallic ball to sink in it.
 - (2) mercury is also a metal in the liquid form.
 - (3) the density of mercury is higher than that of steel.
 - (4) a steel ball can be made to float on any liquid by making suitable adjustment.
- (12) The study dealing with breeding of honey-bees and the technique of obtaining honey from them is called as _____
- (1) Olericulture
 - (2) Sericulture
 - (3) Apiculture
 - (4) Silviculture
- (13) Which of the following disease is caused by Vitamin-A deficiency?
- (1) Kwashiorkor
 - (2) Rickets
 - (3) Night blindness
 - (4) Scurvy
- (14) Which of the following is caused by Protozoans?
- (1) Malaria
 - (2) Athlete's feet
 - (3) Ascariasis
 - (4) Small pox
- (15) In countries, where polished rice is the main cereal in their diet, people suffer from _____
- (1) Pellagra
 - (2) Scurvy
 - (3) Beri-beri
 - (4) Osteomalacia
- (16) A rainbow is formed by the _____ of light by water droplets.
- (1) dispersion
 - (2) dispersion & total internal reflection
 - (3) scattering
 - (4) total internal dispersion
- (17) To an Astronaut, the outer space appears as _____
- (1) white.
 - (2) black.
 - (3) deep blue.
 - (4) crimson.

- (18) The planet which is closest to the Sun is called as _____
(1) Venus (3) Jupiter
(2) Mars (4) Mercury
- (19) Which soil in India is most suitable for growing Cotton?
(1) Alluvial soil (3) Laterite soil
(2) Black soil (4) Arid soil
- (20) Which of the following represents Tropic of Cancer?
(1) $23 \frac{1}{2}^{\circ}$ North (3) $66 \frac{1}{2}^{\circ}$ North
(2) $23 \frac{1}{2}^{\circ}$ South (4) $66 \frac{1}{2}^{\circ}$ South
- (21) Which of the following river not flowing towards Bay of Bengal?
(1) Cauvery (3) Narmada
(2) Mahanadi (4) Krishna
- (22) Mettur dam is constructed across which river?
(1) Cauvery (3) Ponnaiyar
(2) Vaigai (4) Palar
- (23) Kudremukh iron ore mine is situated in which state?
(1) Jharkhand (3) Karnataka
(2) Chattisgarh (4) Goa
- (24) In which place, Gautama Buddha got enlightenment under pipal tree?
(1) Bodh Gaya (3) Kusinagar
(2) Kapila vastu (4) Sarnath
- (25) Chinese Pilgrim "Hieun-Tsang" visited India during the reign of _____?
(1) Harsha (3) Chandragupta-I
(2) Muhammed bin Tughlaq (4) Skandagupta
- (26) "Mudrarakshasa", a drama was written by _____
(1) Visakhadatta (3) Ashvaghosa
(2) Kautilya (4) None of the above
- (27) Who among the following wrote Tamil epic literature "Silappadikaram"?
(1) Thiruvalluvar (3) Seethalai sattanar
(2) Elangovadigal (4) None of the above

- (28) Who among the following is called as Napoleon of India?
 (1) Chandragupta-I (3) Chandragupta-II
 (2) Samudragupta (4) None of the above
- (29) The Brihadiswara temple at Thanjavur (Tanjore) was built by?
 (1) Karikala Chola (3) Rajendra Chola
 (2) Rajaraja Chola (4) Kulothunga Chola
- (30) The Sun temple at Konark was constructed by _____
 (1) Pala kings (3) Pratiharas
 (2) Chola Kings (4) Chandellas
- (31) Who among the following wrote "Abigyan Shakuntala"?
 (1) Kalidasa (3) Kautilya
 (2) Patanjali (4) Bharata
- (32) Who among the following established the Slave dynasty in India?
 (1) Bakhtiyar Khalji (3) Mahmud Ghazni
 (2) Qutbuddin Aibak (4) None of the above
- (33) Who among the following wrote "Tuzuk-i-Jahangiri"?
 (1) Abul Fazal (3) Jahangir
 (2) Muhammad Saqi Mustaid Khan (4) Shah Jahan
- (34) Which of the following first paved way for the British mastery of India?
 (1) Battle of Plassey (3) Battle of Panipat
 (2) Battle of Buxar (4) Battle of Mysore
- (35) Who among the following implemented the policy of "Doctrine of Lapse" for expanding British rule in India?
 (1) Lord Hastings (3) Lord Dalhousie
 (2) Lord Wellesley (4) None of the above
- (36) Who among the following brought Civil Services to British India?
 (1) Lord Ellenborough (3) Lord Wellesley
 (2) Lord Cornwallis (4) None of the above
- (37) To which state, the dance-form 'Kuchipudi' belongs?
 (1) Orissa (3) Andhra Pradesh
 (2) Tamil Nadu (4) Kerala

- (38) To which of the following, the maestro 'Padma Subramaniam' is associated?
(1) Kathak (3) Odissi
(2) Bharatanatyam (4) Kathak
- (39) To which of the following, the maestro 'Birju Maharaj' is associated with?
(1) Bharatanatyam (3) Odissi
(2) Kuchipudi (4) Kathak
- (40) Who among the following is associated with Sitar?
(1) Lalgudi K Jayaraman (3) Zakir Hussain
(2) Amjad Ali Khan (4) Pandit Ravi Shankar
- (41) Who among the following is associated with Nadaswaram?
(1) Rajaratnam Pillai (3) Bismillah Khan
(2) Karaikudi R Mani (4) Kishan Maharaj
- (42) Who among the following is associated with Flute?
(1) Palghat Raghu (3) Hari Prasad Chaurasia
(2) Sajjad Hussain (4) L.Subramaniam
- (43) In what circumstances, the salaries and allowances of persons serving the Union Government, including the Judges of Supreme Court & High Court can be reduced?
(1) National emergency (3) Financial emergency
(2) Emergency due to failure of Constitutional machinery in a state (4) By passing an executive order.
- (44) Who was the Chairman of the Drafting Committee of Indian Constitution?
(1) N.Gopalaswamy Ayyangar (3) K.M.Munshi
(2) Alladi Krishnaswami Ayyar (4) Dr.B.R.Ambedkar
- (45) The order, by which the Superior Court commands a person or a public authority to do or forbear to do something in the nature of public duty is called as _____
(1) Writ Habeas Corpus. (3) Writ Certiorari.
(2) Writ Mandamus. (4) Writ Quo warranto.
- (46) Who is the Supreme Commander of the defence forces of India?
(1) Chief of Indian Army (3) The Prime Minister of India
(2) Defence Minister of India (4) The President of India.

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(47) Which Article of the Indian constitution gives special status to the State of Jammu and Kashmir?

- (1) Article 358.
- (2) Article 370.
- (3) Article 360.
- (4) Article 368.

(48) If $\frac{3}{16}$ of a tank is filled in 15 mins, the rest of the tank can be filled in _____

- (1) 55 mins
- (2) 60 mins
- (3) 65 mins
- (4) 70 mins

(49) A car travels from City-A to City-B, situated 220 kms apart in 5 hours. If the car travels at average speed of 50 kmph for 3 hours, what should be the speed of the car for the rest of the 3 hours to reach its destination as per schedule?

- (1) 20kmph
- (2) 30kmph
- (3) 35kmph
- (4) 40kmph

(50) A camera's original cost was Rs.4,000/-. During the festival season the camera was offered for sale at 110% of its actual cost. Later the camera was sold at a discount of 20%.How much did the camera fetch for its sale?

- (1) Rs.3,500/-
- (2) Rs.3,520/-
- (3) Rs.3,550/-
- (4) Rs.4,000/-

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CORRECTED VERSION FOR QUESTION NOS. 38 & 49

(To be circulated along with the Question paper)

(38) To which of the following, the maestro 'Padma Subramaniam' is associated?

- | | |
|-------------------|------------------------|
| (1) Kathak | (3) Odissi |
| (2) Bharatanatyam | (4) None of the above. |

(49) A car travels from City-A to City-B, situated 220 kms apart in 5 hours. If the car travels at average speed of 50 kmph for 3 hours, what should be the speed of the car for the rest of the two hours to reach its destination as per schedule?

- | | |
|------------|------------|
| (1) 20kmph | (3) 35kmph |
| (2) 30kmph | (4) 40kmph |
