CBRT - 2020
Question Paper Grid

Government of Goa 13 December 2020

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Subjects Junior Anaesthetist
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Junior Anaesthetist

Passage:
Answer the following questions based on the passage below:

I have seen too much hate to want to hate..... Somehow we must be able to stand up before our most bitter opponents and say: "We shall match your capacity to inflict suffering by our capacity to endure suffering. We will meet your physical force with soul force. Do to us what you will and we will still love you. We cannot in all good conscience obey your unjust laws and abide by the unjust system, because non-cooperation with evil is as much a moral obligation as is cooperation with good, and so throw us in jail and we will still love you. Bomb our homes and threaten our children, and, as difficult as it is, we will still love you.

Itemcode : **NA1031**
Q1 : The speaker in the passage proposes to respond to hatred by matching the opponent's

(a) capacity to inflict suffering
(b) physical force
(c) hatred with love
(d) soul force

Itemcode : **NA1032**
Q2 : The unjust laws cannot be obeyed according to the passage because it goes against

(a) the unjust system
(b) the moral obligation
(c) the evil
(d) the conscience

Itemcode : **NA1033**
Q3 : In the context of the passage, the phrase "as difficult as it is", refers to

(a) the hardship of bombing of their homes
(b) the threatening of their children
(c) the challenge of loving one's inflictors of suffering
(d) the possibility of loving one's persecutors

Itemcode : **NA1034**
Q4 : The phrase "non-cooperation with evil" in the passage implies

(a) cooperation with good
(b) resisting an unjust system
(c) a moral victory
(d) none of the above

Itemcode : **NA1035**
Q5 : As an ethical act, "cooperation with good" is described in the passage as being an equivalent of

(a) non-cooperation with evil
(b) moral obligation
(c) forgiving your opponent
(d) loving in the face of hatred

Passage:
Answer the following questions based on the passage below:

Depending on what and how you communicate with others or conduct yourself, you will either draw people close to you or drive them away from you. The largest content of non-verbal communication is contributed by what is popularly called body language. Depending on what this speaks you would get a red-carpet welcome or rejection. Hence, it is important to know where you stand. It is equally important to know the requirements of different situations, time and place to ensure you are able to take care of your own acceptance. In a tradition-ruled country like India, body conduct has an important relevance in valuing relationships and individuals. If your general disposition is good you will readily emit sparks that make you the centre of happenings. Expression of the eye, good eye contact makes your interlocutor feel, you are keen to live life. Sensitive people keep changing their expression and literally swing up or down.

Itemcode : **NA1036**
Q6 : As per the passage, the main basis for one's enthusiastic social acceptance depends on one's

(a) body language
(b) large content of non-verbal communication
(c) conduct
(d) communication

Itemcode : **NA1037**

Q7 : Identify from the options provided, which one is particularly significant in a country like India for being socially accepted, as implied in the passage

(a) tradition
(b) valuing relationships
(c) individuals
(d) proper body conduct

Itemcode : **NA1038**

Q8 : Find the word or phrase in the passage that means "warm and willing acceptance"

(a) red carpet welcome
(b) draw people
(c) body conduct
(d) none of the above

Itemcode : **NA1039**

Q9 : From the options given below, identify a suitable synonym for the term "interlocuter" in the sense in which it is used in the passage

(a) minstrel
(b) conversationalist
(c) conversational partner
(d) schmoozer

Itemcode : **NA1040**

Q10 : Read the following premises derived from the passage carefully and state whether they are true or false
(i) It is important to know how good or bad one is, with regard to body language
(ii) One's response to the time, place and nature of situation decides one's social acceptance or rejection

(a) Statements (i) and (ii) are both false
(b) Statement (i) is false but statement (ii) is true
(c) Statement (i) is true but statement (ii) is false
(d) Statements (i) and (ii) are both true

Itemcode : **NA1051**

Q11 : All the trees in the park are flowering trees. Some of the trees in the park are Honey Flower Trees. All Honey Flower Trees in the park are flowering trees. If the first two statements are true the third statement is?

(a) TRUE
(b) FALSE
(c) Uncertain
(d) None of the above

Itemcode : **NA1052**

Q12 : Today's workforce has a new set of social values. Ten years ago, a manager who was offered a promotion in a distant city would not have questioned the move. Today, a manager in that same situation might choose family happiness instead of career advancement.

(a) Most managers are not loyal to the corporations for which they work.
(b) Businesses today do not understand their employee needs.
(c) Employees social value have changed over the past 10 years.
(d) Career advancement is not important to today's business managers.

Itemcode : **NA1053**

Q13 : When a number is divided by 13, the remainder is 11. When the same number is divided by 17, then remainder is 9. What is the number?

(a) 339
(b) 349
(c) 369
(d) Data Inadequate

Itemcode : **NA1054**

Q14 : Identify the right indirect speech form of the given sentence.
I said, "Put your guns down or I will shoot you." to the Army Personnel.

(a) I asked the Army Personnel to put his guns down or I will shoot them
(b) I asked the Army Personnel to put their gun down or I would shoot them.
(c) I asked the Army Personnel to put his/ her guns down or I would shoot him/ her
(d) I said to the Army Personnel to put her guns down or I would shoot her.

Itemcode : **NA1055**

Q15 : The difference between the ages of a man and his daughter is 28. The average of their ages now is 28. What are their present ages in years?

(a) 28, 56

(b) 14, 42
(c) 7,35
(d) 35,14

Itemcode : **NA1056**

Q16 : There are three runners Ram, Gautam, and Shyam with their respective speeds of 10kmph, 20kmph and 30kmph they are initially at P and they have to run between the two points P and Q which are 10 km apart from each other. They start their race at 6 am and end at 6 pm on the same day. If they run between P and Q without any break, then how many times they will be together either at P or Q during the given time period?

(a) 5
(b) 7
(c) 4
(d) 12 .

Itemcode : **NA1057**

Q17 : Each year, the number of students caught copying in examination is nearly the same as the number of students caught driving without a valid driving license and the number of students caught traveling without a valid ticket. Therefore, the outcry about copying in examination ought to be put to rest, as the act of copying in examination is in fact almost as mundane as the acts of driving without a valid driving license or traveling without a valid ticket.
Which one of the following, if true, would most effectively undermine the author's argument?

(a) Although the number of students caught driving without a valid driving license each year is very small, the total number of incidences of students traveling without a valid ticket is many times greater.
(b) The punishments upon being caught copying in examination are greater than those upon being caught driving without a valid driving license or traveling without a valid ticket.
(c) Fewer students would take their chances with driving without a valid driving license and traveling without a valid ticket than with copying in examination.
(d) Cheating in general-including copying in examination-is more prevalent than driving without a valid driving license.

Itemcode : **NA1058**

Q18 : Abhishek is son of Amitabh's father's sister. Prakash is son of Teji who is mother of Vikas and grandmother of Amitabh. Harivansh is father of Neela and grandfather of Abhishek. Teji is wife of Harivansh.

How is Vikas's wife related to Neela?

(a) Sister
(b) Nephew
(c) Niece
(d) Data Inadequate

Itemcode : **NA1059**

Q19 : A clock is set right at 8 a.m. The clock gains 10 minutes in 24 hours will be the true time when the clock indicates 1 p.m. on the following day?

(a) 48 min. past 12.
(b) 46 min. past 12.
(c) 45 min. past 12.
(d) 47 min. past 12.

Itemcode : **NA1060**

Q20 : In each of the following questions find out the alternative which will replace the question mark.

Rigid : Stiff :: Quick : ?

(a) Inappropriate
(b) Common
(c) Alive
(d) Avoidable

Itemcode : **NA1061**

Q21 : In each of the following questions find out the alternative which will replace the question mark.

Rejoice : Exult :: Charlatan : ?

(a) Careful
(b) Con artist
(c) Depleted
(d) Aristocratic

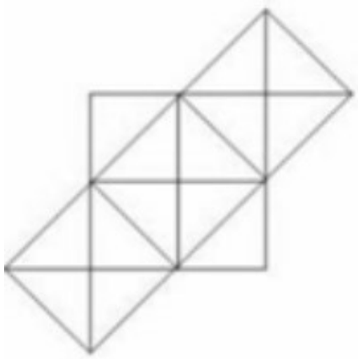
Itemcode : **NA1062**

Q22 : Which interchange of signs will make the following equation correct?
35 + 7 * 5 ÷ 5 - 6 = 24

(a) + and -
(b) + and *
(c) ÷ and +
(d) - and ÷

Itemcode : **NA1063**

Q23 : How many rectangle and square are there in the given figure?



(a) 15
(b) 17
(c) 18
(d) 13

Itemcode : **NA1064**

Q24 : At a conference, 12 members shook hands with each other before & after the meeting. How many total number of hand shakes occurred?

(a) 100
(b) 122
(c) 132
(d) 145

Itemcode : **NA1065**

Q25 : In the question, two statements are given, followed by two conclusions, I and II. You have to consider the statements to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.

Statements :
No rings are bangles.
All gold are rings.

Conclusions :
I. No bangles are gold.
II. Some rings are gold.

(a) Only conclusion I follows
(b) Both conclusions I and II follow
(c) Only conclusion II follows
(d) Neither conclusion I nor conclusion II follows

Itemcode : **NA1066**

Q26 : Find the missing series.
BXM, EUP, HRS, ?

(a) RPN
(b) VTU
(c) KOV
(d) None of these

Itemcode : **NA1067**

Q27 : Which set of letters when sequentially placed at the gaps in the given letter series shall complete it?
_qr_srq_p_rs_r_p

(a) pqrsss
(b) qprsss
(c) pspqsq
(d) pspqqq

Itemcode : **NA1068**

Q28 : Select the one which is different from the other three responses.

(a) AIUE
(b) PIRE
(c) VALT
(d) TORE

Itemcode : **NA1069**

Q29 : In each of the following questions find out the alternative which will replace the question mark.
Fastidious : Dainty :: Tenet : ?

(a) Bad
(b) Good
(c) Credo
(d) Authentic

Itemcode : **NA1070**

Q30 In the word 'EVERYTHING' all consonants are written as their preceding letter and all vowels are written as their

: succeeding letters. Now all letters are arranged in alphabetical order from left to right and all the repeated letters are eliminated. How many letters are between U and G?

(a) One
(b) Two
(c) Four
(d) Five

Passage:
The passage given below is followed by a set of questions. Select the most appropriate answer for each question.
Metaphysics, or the attempt to conceive the world as a whole by means of thought, has been developed, from the first, by the union and conflict of two very different human impulses, the one urging men towards mysticism, the other urging them towards science. Some men have achieved greatness through one of these impulses alone, others through the other alone: in Hume, for example, the scientific impulse reigns quite unchecked, while in Blake a strong hostility to science co-exists with profound mystic insight. But the greatest men who have been philosophers have felt the need both of science and of mysticism: the attempt to harmonise the two was what made their life, and what always must, for all its arduous uncertainty, make philosophy, to some minds, a greater thing than either science or religion.
Before attempting an explicit characterisation of the scientific and the mystical impulses, I will illustrate them by examples from two philosophers whose greatness lies in the very intimate blending which they achieved. The two philosophers I mean are Heraclitus and Plato.
Heraclitus, as everyone knows, was a believer in universal flux: time builds and destroys all things. From the few fragments that remain, it is not easy to discover how he arrived at his opinions, but there are some sayings that strongly suggest scientific observation as the source. "The things that can be seen, heard, and learned," he says, "are what I prize the most. "This is the language of the empiricist, to whom observation is the sole guarantee of truth. "The sun is new every day, "is another fragment; and this opinion, in spite of its paradoxical character, is obviously inspired by scientific reflection, and no doubt seemed to him to obviate the difficulty of understanding how the sun can work its way underground from west to east during the night. Actual observation must also have suggested to him his central doctrine, that Fire is the one permanent substance, of which all visible things are passing phases. In combustion we see things change utterly, while their flame and heat rise up into the air and vanish. "This world, which is the same for all," he says, "no one of gods or men has made; but it was ever, is now, and ever shall be, an ever-living Fire, with measures kindling, and measures going out."
"The transformations of Fire are, first of all, sea; and half of the sea is earth, half whirlwind." This theory, though no longer one which science can accept, is nevertheless scientific in spirit. Science, too, might have inspired the famous saying to which Plato alludes: "You cannot step twice into the same rivers; for fresh waters are ever flowing in upon you." But we find also another statement among the extant fragments: "We step and do not step into the same rivers; we are and are not." The comparison of this statement, which is mystical, with the one quoted by Plato, which is scientific, shows how intimately the two tendencies are blended in the system of Heraclitus. Mysticism is, therefore, in essence, little more than a certain intensity and depth of feeling in regard to what is believed about the universe.

Itemcode : **NA1071**

Q31 What according to the passage makes philosophy a greater thing than either science or religion for some people?
:

(a) Its urgency in clarifying the need to treat science and mysticism the same way.
(b) Its demand for drawing a common ground for both science and mysticism.
(c) Its clear way of separating myth from fact.
(d) Both, its demand for drawing a common ground for both science and mysticism and its clear way of separating myth from fact.

Itemcode : **NA1072**

Q32 What can you say about the things that Heraclitus valued the most?
:

(a) They were things that were observed by others.
(b) They were things that were palpable.
(c) They were things that were tangible.
(d) They were what could be perceived by the senses.

Itemcode : **NA1073**

Q33 What can you infer from the passage above?
:

(a) That science and mysticism need not contradict each other.
(b) That mysticism is the antithesis of science.
(c) That philosophers follow both science and mysticism.
(d) All of the above.

Itemcode : **NA1074**

Q34 What would make for an apt title for the passage above?
:

(a) Unifier of facts and myths- the philosopher
(b) Unification of seemingly concurring subjects- science and mysticism
(c) Science and philosophy
(d) Plato and Heraclitus

Itemcode : **NA1075**

Q35 How, according to the passage, has metaphysics developed?
:

(a) through the union of two conflicting subjects.
(b) through the interaction of mysticism and science.
(c) through the human impulse that pulls beings in two contrasting directions.
(d) through the need of human beings to understand conflicting impulses.

Itemcode : **NA1041**

Q36 Which company has partnered with Amex to provide global benefits and offer exclusive privileges to their premium consumers?
:

(a) ICICI Card
(b) PNB Card
(c) SBI Card
(d) IOB Card

Itemcode : **NA1042**

Q37 Which company has partnered with Bajaj Allianz to launch cyber insurance named 'Digital Suraksha Group Insurance'?
:

(a) Flipkart
(b) Amazon
(c) Myntra
(d) Snapdeal

Itemcode : **NA1043**

Q38 India successfully test fired which supersonic cruise missile with a Strike Range of over 400 Kilometers (September 2020)?
:

(a) Prahaar
(b) Agni
(c) BrahMos
(d) Nirbhay

Itemcode : **NA1044**

Q39 Name the wicket keeper who has contributed for the most number of dismissals in T20 Internationals?
:

(a) Rishab Pant
(b) MS Dhoni
(c) Sushma Verma
(d) Alyssa Healy

Itemcode : **NA1045**

Q40 India plans to build 100-bedded Cancer Hospital and 22, 000-seater Cricket Stadium in which country?
:

(a) Mauritius
(b) Mali
(c) Bangladesh
(d) Maldives

Itemcode : **NA1046**

Q41 The metal whose salts are sensitive to light is?
:

(a) Zinc
(b) Silver
(c) Copper
(d) Aluminum

Itemcode : **NA1047**

Q42 ISRO plans to launch Venus mission named "Shukrayaan-1" by which years?
:

(a) 2024 -2025
(b) 2022 -2023
(c) 2021 -2022
(d) 2026-2027

Itemcode : **NA1048**

Q43 Prime Minister Modi inaugurated world's longest highway tunnel (connects Manali and Lahaul-Spiti Valley) "Atal Tunnel" in which state/UT?
:

(a) Ladakh
(b) Arunachal Pradesh
(c) Uttarakhand
(d) Himachal Pradesh

Itemcode : **NA1049**

Q44 India's 1st ever organic spices seed park will be set up in which state?
:

(a) Uttarakhand
(b) Sikkim
(c) Gujarat
(d) Madhya Pradesh

Itemcode : **NA1050**

Q45 The 'Unfinished' is the memoir of whom?
:

(a) Alia Bhatt
(b) Priyanka Chopra
(c) Deepika Padukone
(d) Anushka Sharma

Itemcode : **NA1001**

Q46 PaCo2 determines :
:

(a) Lung volume.
(b) Pulmonary blood flow.
(c) Alveolar ventilation.
(d) Alveolar blood flow.

Itemcode : **NA1002**

Q47 Laughing Gas was named by :
:

(a) Faraly
(b) Valerus Cordus
(c) Craud Ford
(d) Davy

Itemcode : **NA1003**

Q48 Absolute Contra indication to thiopentone Sodium
:

(a) Old age
(b) Porphyria
(c) Bronchial Asthma
(d) Ectopic Pregnancy

Itemcode : **NA1004**

Q49 Use of Suxamethonium in ECT (psythiatry)
:

(a) Bennet.
(b) Magills.
(c) Holmberg.
(d) Joseph Pristtley.

Itemcode : **NA1005**

Q50 First planned Spinal Anesthesia for Surgery performed by
:

(a) August Bier.
(b) Alfred Barker.
(c) Learnard Corning.
(d) Chen.

Itemcode : **NA1006**

Q51 Alteration of voice after Topica/Analgesia is due to Paralysis of :
:

(a) Recurrent Lyryngeal nerve.
(b) Facial nerve.
(c) External Lyryngeal nerve.
(d) Internal Lyryngeal nerve.

Itemcode : **NA1007**

Q52 Azeotropic mixture has boiling point:
:

(a) 51.5 $^{\circ}$C
(b) 35 $^{\circ}$C
(c) 50 $^{\circ}$C
(d) 85 $^{\circ}$C

Itemcode : **NA1008**

Q53 Mill - Wheel murmur seen in Pts with :
:

(a) PDA
(b) Mitral stenosis
(c) Air embolism
(d) Fat embolism

Itemcode : **NA1009**

Q54 Blood volume in Newborn :
:

(a) 30 ml/kg
(b) 120 ml/kg

(c) 80 ml/kg
(d) 45 ml/kg

Itemcode : **NA1010**

Q55 Horners Syndrome is seen following :
:

(a) Trigeminal Block
(b) Stellata ganglion block
(c) Cervical plexus block
(d) Brachial plexus block

Itemcode : **NA1011**

Q56 Antidote to heparin :
:

(a) EACA
(b) Prostidine
(c) Fresh Blood
(d) Protamine

Itemcode : **NA1012**

Q57 Condition which can be seen only under Anaesthesia :
:

(a) Cardiac Arrest.
(b) Fat Embolism.
(c) Malignant Hyper Thermia.
(d) Air Embolism.

Itemcode : **NA1013**

Q58 Pulmonary Artery Pressure :
:

(a) 60/40 mm of Hg
(b) 30/15 mm of Hg
(c) 120/70 mm of Hg
(d) 90/45 mm of Hg

Itemcode : **NA1014**

Q59 Pain is not carried in :
:

(a) B fibers.
(b) C fibers.
(c) A-delta fibers.
(d) A-B fibers.

Itemcode : **NA1015**

Q60 A 33 yr. male pt. has cirrotic liver with Billirubin 12.5 mg and serum creatinine 4.36. A choice of muscle relaxant :
:

(a) Atracutium
(b) Pancuronium
(c) D'tubocuriline
(d) Vacurarium

Itemcode : **NA1016**

Q61 Melatonin is Secreted by :
:

(a) Pituary Gland
(b) Adrenal cortex
(c) Pineal Gland.
(d) Thyrnus

Itemcode : **NA1017**

Q62 Kussmauls Breathing is Seen in :
:

(a) Respiratory Acidosis
(b) Metabolic Alkalosis.
(c) Metabolic Acidosis
(d) Respiratory Alkalosis

Itemcode : **NA1018**

Q63 Phaechromocytoma is.
:

(a) Anatomically benign and Physiologically benign.
(b) Anatomically benign and Physiologically malignant.
(c) Anatomically and Physiologically malignant.
(d) Anatomically malignant and Physiologically benign.

Itemcode : **NA1019**

Q64 Ketamine hydrochloride produces :
:

(a) Neuroleptanalgesia
(b) Dissociative Anaesthesia
(c) Unconsciousness
(d) Hypnosis

Itemcode : **NA1020**

Q65 Dantroline Sodium is used in :
:

(a) Dementia.
(b) Induction of Anaesthesia.
(c) For Malignant Hyper Thermia.
(d) Dehydration.

Itemcode : **NA1021**

Q66 Ayre's 'T'piece is used in Paediatric Anaesthesia:
:

(a) Easy to use
(b) Minimal resistance to respiration.
(c) No dead Space.
(d) No rebreathing.

Itemcode : **NA1022**

Q67 QRS complex in ECG represents activation of :
:

(a) Septum and Rt ventricle.
(b) Left ventricle.
(c) Septum only.
(d) All above three.

Itemcode : **NA1023**

Q68 Macrophages in Liver is called
:

(a) Kupfer cells
(b) Microglia
(c) Histohistocytrs
(d) Adipocytes.

Itemcode : **NA1024**

Q69 Length of Isthmus of Thyroid :
:

(a) 4.5 CM.
(b) 3.1 CM.
(c) 5.0 CM.
(d) 1.25 CM.

Itemcode : **NA1025**

Q70 Swan Ganz Catheter is used for Anaesthesia :
:

(a) PAWP.
(b) CVP.
(c) RV Pressure.
(d) Arterial B.P.

Itemcode : **NA1026**

Q71 Which of following drugs is metabolized by plasma cholinestress.
:

(a) Bupivacaine.
(b) Lidocaine.
(c) Rapivacaine.
(d) Tetracaine

Itemcode : **NA1027**

Q72 In a patient with acute renal failure which of the following sign is not seen. :
:

(a) Hypertension
(b) Hyperkalemia.
(c) Metabolic Acidosis
(d) Metabolic Alkalosis.

Itemcode : **NA1028**

Q73 I-V local analgesic agent cannot be used in :

:

(a) In the treatment of status epilepticus.
(b) In the treatment of Cardic arrthmias.
(c) Status Asthmaticus.
(d) To produce local anesthesia.

Itemcode : **NA1029**

Q74 Conventional used Ringer's lactate solution does not contain :
:

(a) Nacl
(b) Mgcl2
(c) Kcl
(d) CaCl2

Itemcode : **NA1030**

Q75 A pt. of Burns with complete contracture of Neck, following air-way maintenance method is not indicated :
:

(a) Mask with O2 insufflatica.
(b) Retrograde Intubation.
(c) Tracheostomy.
(d) Scoline with magilis endotracheal .

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