



**CBRT - 2018
Question Paper Grid**

Government of Goa

23 December 2018

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Set Name

Subjects

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Scientific Assistant(Biology & Serology)

Itemcode : **S21152**

Q1 : Tripitakas are the sacred books of the

- (a) Jains
- (b) Hindus
- (c) Muslims
- (d) Buddhists

Itemcode : **S21153**

Q2 : Mohenjodaro is situated in

- (a) The province of Sindh in Pakistan
- (b) In the State of Gujarat in India
- (c) In the State of Punjab in India
- (d) In Afghanistan

Itemcode : **S21154**

Q3 : The greatest Portuguese governor in the east who laid the real foundation of Portuguese power in India was

- (a) Almedia
- (b) Albuquerque
- (c) Francis Drake
- (d) Vasco de Gama

Itemcode : **S21155**

Q4 : Who was the author of Gita Rahasya?

- (a) Ramakrishna Paramahansa
- (b) Vijayaraghavachariar
- (c) Bal Gangadhar Tilak
- (d) Vivekananda

Itemcode : **S21156**

Q5 : What was the ultimate goal of Gandhi's Salt Satyagraha?

- (a) Repeal of salt laws
- (b) Curtailment of the government's power
- (c) Economic relief to the common people
- (d) Purna swaraj for India

Itemcode : **S21157**

Q6 : The Length of India's coastline is about

- (a) 7,500 km.
- (b) 5,900 km.
- (c) 7,000km.
- (d) 6,100 km.

Itemcode : **S21158**

Q7 : Which area of India receives the least rainfall?

- (a) Ladakh
- (b) The Western Ghats
- (c) Eastern Rajasthan
- (d) Western Tamil Nadu

Itemcode : **S21159**

Q8 : Which of the following major sea ports of India does not have a natural harbour?

- (a) Mumbai
- (b) Cochin
- (c) Mormugao
- (d) Paradeep

Itemcode : **S21160**

Q9 : What is the chief source of political power in India?

- (a) People
- (b) the Constitution
- (c) the Parliament
- (d) State legislature

Itemcode : **S21161**

Q10 How many members of the Rajya Sabha can be nominated by the President from amongst persons who have distinguished themselves in art, literature, social service etc.?

- (a) 2
- (b) 10
- (c) 12
- (d) none

Itemcode : **S21172**

Q11 Choose the most appropriate Preposition:

: The mother was anxious _____ the safety of her son.

- (a) At
- (b) About
- (c) For
- (d) Upon

Itemcode : **S21173**

Q12 Choose the most appropriate Preposition:

: There is no exception _____ this rule.

- (a) In
- (b) To
- (c) For
- (d) About

Itemcode : **S21174**

Q13 Choose the exact meaning of the idiomatic expression/phrase given below:

: When I saw him in the morning, he looked like a duck in a thunderstorm.

- (a) Entrapped
- (b) Distressed
- (c) Peaceful
- (d) Timid

Itemcode : **S21175**

Q14 Choose the exact meaning of the idiomatic expression/phrase given below:

: Our College is within a stone's throw of the railway station.

- (a) Very far off
- (b) Within a definite circumstance
- (c) At a short distance
- (d) With a certain radius

Itemcode : **S21176**

Q15 Choose the correct Synonym from the words given:

: Abysmal

- (a) Mixed
- (b) Horrifying
- (c) Hollow
- (d) Superficial

Itemcode : **S21177**

Q16 Choose the correct Synonym from the words given:

: Zealot

- (a) Foolish
- (b) Energetic
- (c) Dumb
- (d) fanatic

Itemcode : **S21178**

Q17 Choose the correct Antonym from the words given below:

: Clandestine

- (a) Open
- (b) Vague
- (c) Bright
- (d) Unreal

Itemcode : **S21179**

Q18 Choose the correct Antonym from the words given below:

: Sporadic

- (a) Irregular

- (b) Uneven
- (c) Frequent
- (d) Regularly

Itemcode : **S21180**

Q19 Spot the error in the following sentences given below by indicating your answer with the correct alphabet:
:

- (a) Having been found guilty
- (b) On murder
- (c) The accused was
- (d) Sentenced to death

Itemcode : **S21181**

Q20 Spot the error in the following sentences given below by indicating your answer with the correct alphabet:
:

- (a) A more irrational world
- (b) To this one in which
- (c) We presently live
- (d) Could hardly be conceived

Itemcode : **S21162**

Q21 Choose the correct alternative
: Melt: Liquid: : Freeze : ?

- (a) Ice
- (b) Condense
- (c) Solid
- (d) Crystal

Itemcode : **S21163**

Q22 Choose the correct alternative
: Acting: Theatre:: Gambling : ?

- (a) Casino
- (b) Club
- (c) Bar
- (d) Gymn

Itemcode : **S21164**

Q23 Select the best alternative
: Professor : Lecture :: Doctor : ?

- (a) Hospital
- (b) Disease
- (c) Medicine
- (d) Patient

Itemcode : **S21165**

Q24 Choose out the odd one
:

- (a) Axe
- (b) Sword
- (c) Knife
- (d) Showel

Itemcode : **S21166**

Q25 Choose out the odd one
:

- (a) Island
- (b) Coast
- (c) Oasis
- (d) Harbour

Itemcode : **S21167**

Q26 Choose the correct alternative that will continue the same pattern and fill in the blank spaces
: 19, 2, 38, 3, 114, 4, (.....)

- (a) 228
- (b) 256
- (c) 352
- (d) 456

Itemcode : **S21168**

Q27 Choose the missing term out of the given alternatives
:

U, O, I, ?, A

- (a) E
- (b) C

- (c) S
- (d) G

Itemcode : **S21169**

Q28 Choose the missing term out of the given alternatives

: Z, L, X, J, V, H, T, F, ?, ?

- (a) R, D
- (b) R, E
- (c) S, E
- (d) Q, D

Itemcode : **S21170**

Q29 In the following letter series, some of the letters are missing which are given in that order as one of the alternatives

: below it .Choose the correct alternative

Abc-d-bc-d-b-cda

- (a) bacde
- (b) cdabe
- (c) dacab
- (d) decdb

Itemcode : **S21171**

Q30 If in a certain language NATURE is coded as MASUQE , how is FLOWER coded in that code?

:

- (a) FBMJND
- (b) FZMHND
- (c) GANIOE
- (d) EALIME

Itemcode : **S21122**

Q31 Which one of the following is biological physical evidence?

:

- (a) Alcohol in blood
- (b) Hairs & fibres
- (c) Drugs & narcotics
- (d) Paints & glass

Itemcode : **S21123**

Q32 The inner structure of human hair comprises of

:

- (a) Cortex
- (b) Cuticle
- (c) Medulla
- (d) All of the above.

Itemcode : **S21124**

Q33 Sex of the person can be determined by examination of

:

- (a) The cross section of the hair
- (b) Determining medullary index ratio
- (c) Nucleated cells of the hair root
- (d) Length of the hair.

Itemcode : **S21125**

Q34 Microscopic examination of the cross-section of human hair reveals bean

: or kidney shape. It may be concluded that the hair originated from

- (a) Beard
- (b) Torso
- (c) Pubic region
- (d) Scalp.

Itemcode : **S21126**

Q35 Origin of species can be revealed from hair examination. Which of the following is least important criteria?

:

- (a) Cuticular structure
- (b) Inner structure of medulla
- (c) Medullary index ratio
- (d) Colour of the hair.

Itemcode : **S21127**

Q36 Outer layer of the human hair consists of translucent scales laid one over the other as tiles over the roof. Is this

: statement correct?

- (a) Partially correct
- (b) Fully correct

- (c) Totally incorrect
- (d) It is animal hair characteristics

Itemcode : **S21128**

Q37 Which one of the following is incorrect statement in respect of human hair examination?
:

- (a) Human and animal hair cannot be differentiated
- (b) Sex can be found from hair specimen
- (c) Trace elements in hair by Neutron activation analysis can determine whether the person was poisoned.
- (d) Human hair can be individualized by DNA fingerprinting technique.

Itemcode : **S21129**

Q38 The ratio between the diameter of medulla and the whole hair is known as Medullary Index. That helps in identifying species of hair. Which one of the Medullary Index is that of the human hair ?

- (a) Ratio less than 0.5
- (b) Ratio more than 0.5
- (c) Ratio more than 0.8
- (d) Ratio equal to 0.9.

Itemcode : **S21130**

Q39 Which of the following statement is correct that can determine sex of a person from hair examination?
:

- (a) Length of the hair and its refractive index may determine sex
- (b) Tip of the hair may determine sex
- (c) Microscopic examination of dye pigment in the hair may indicate female hair
- (d) Presence or absence of Barr bodies in the hair root sheath cells, may indicate the sex of the person.

Itemcode : **S21131**

Q40 Cloth piece that requires to be matched with the source from where it originated, can be ascertained by examining
:

- (a) Colour of the fabric
- (b) Identifying varieties of fibres present
- (c) Weave pattern, warp and weft count, twist count etc.
- (d) All the factors referred at (a), (b), (c)

Itemcode : **S21132**

Q41 Wood or its fragments can be identified by its characteristic features. The feature that is incorrect is
:

- (a) Wood of all species have common characteristics
- (b) Characteristics of parenchyma cells
- (c) Characteristics of fibres, tracheids and vessels
- (d) Characteristics of annual growth rings.

Itemcode : **S21133**

Q42 Which of the following statement is not true in the comparison of wood or wood fragments?
:

- (a) Wood in any form or size can be examined
- (b) Wood that is hard or soft can be examined
- (c) Wood that is painted is not fit for examination
- (d) Microscopic characteristics can be of immense help

Itemcode : **S21134**

Q43 Woolen fibres can be identified under microscope by the
:

- (a) presence of scales on its surface
- (b) presence of nodes
- (c) presence of continuous tubular structure
- (d) presence of twisted ribbon like structure.

Itemcode : **S21135**

Q44 In establishing whether death is due to drowning, Diatoms play important role.
: Which of the following statement is not true in respect of Diatoms identification in drowning cases?

- (a) Diatoms differ in shape and size
- (b) Diatoms can also be found in the organs of the simulated drowning body
- (c) Diatoms can help determine ante-mortem drowning
- (d) Diatoms exist in fresh and sea water.

Itemcode : **S21136**

Q45 Forensic Odontologist is an Expert in
:

- (a) Restoring teeth, of the victim, lost during criminal assault
- (b) Providing dentures to the victim of accident
- (c) Identifying bite marks, on the person of the victim, of sexual offence
- (d) In extracting badly damaged teeth, of the victim, in criminal assault

Itemcode : **S21137**

Q46 The presumptive test for blood that is less sensitive, but safe and widely used is :

- (a) Benzidine test
- (b) Phenolphthalein test
- (c) Tetra methyl benzidine test
- (d) Takayama test

Itemcode : **S21138**

Q47 The Acid phosphatase test is commonly used for testing which of the body fluids? :

- (a) Sweat
- (b) Blood
- (c) Saliva
- (d) Semen

Itemcode : **S21139**

Q48 Of the following which statement is incorrect in th examination of blood ? :

- (a) Species of animal cannot be detected
- (b) Human and animal blood can be distinguished
- (c) male or female person?s blood can be ascertained
- (d) Paternity can be established

Itemcode : **S21140**

Q49 If the mother's blood group is A, and that of father is AB group, then blood group that is not possible in the Offspring is :

- (a) A blood group
- (b) B blood group
- (c) O blood group
- (d) AB blood group

Itemcode : **S21141**

Q50 Shape of blood drops at crime scene help in crime investigation. Star shaped blood drops with secondary and tertiary : spatters reveal

- (a) Drops fell vertically from low height
- (b) Drops fell vertically from great height
- (c) Drops fell from inclined position
- (d) Drops fell from a moving person with injury

Itemcode : **S21142**

Q51 In determining age of the blood stains, the colour that is not found in blood stains is :

- (a) Fresh blood stains look purple in colour
- (b) Fresh blood stains may also look bright red in colour
- (c) Few days old blood appear brown in colour
- (d) Very old blood stains may appear blackish brown in colour

Itemcode : **S21143**

Q52 Of the following, the confirmatory test for identification of blood stains is :

- (a) Luminol test
- (b) Leucomalachite green test
- (c) Florence test
- (d) Takayama crystal test

Itemcode : **S21144**

Q53 Which of the following can best be used to confirm that the stain in question is Semen? :

- (a) Peculiar odour with a starchy feel
- (b) b) Bright blue fluorescence under U. V. rays
- (c) Microscopic test reveal the presence of spermatozoa
- (d) Acid phosphatase test

Itemcode : **S21145**

Q54 DNA Fingerprinting is the modern technique for identification of individuals.Which of the following specimens is : unsuitable for that purpose?

- (a) Blood and Semen stains
- (b) Erythrocytes or red blood cells
- (c) Tooth and hair roots
- (d) Flesh or bone marrow

Itemcode : **S21146**

Q55 Which of the following statements is incorrect?

- :
- (a) Blood stained garments should be dried under shade and packed in paper bags
 - (b) Blood stained garments should be dried under the sun and packed in plastic bags
 - (c) Contact between two blood stains should be avoided
 - (d) Paper should be placed between folds of stained garments while packing.

Itemcode : **S21147**

Q56 Can live and intact Sperms be detected in the vaginal fluid of the victim of rape?

- :
- (a) Yes, if the swab is collected and examined within 6 hours of rape
 - (b) Yes, even after knowing, that rapist used Condom
 - (c) No, if the rapist is impotent
 - (d) No, if the rapist is vasectomized

Itemcode : **S21148**

Q57 For determination of species origin, which one of the methods listed below is not a classical method?

- :
- (a) Agar Gel diffusion method
 - (b) Precipitin ring method
 - (c) Crossover electrophoresis
 - (d) Electro immunodiffusion method

Itemcode : **S21149**

Q58 Which of the following methods is not adopted for determining ABO blood groups?

- :
- (a) Absorption-inhibition method
 - (b) Absorption elution method
 - (c) Immunoglobulin method
 - (d) Mixed agglutination method

Itemcode : **S21150**

Q59 For ABO blood grouping, which one of the following is not the source for obtaining Anti- bodies?

- :
- (a) A blood group serum for B anti- bodies
 - (b) O blood group serum for AB blood group
 - (c) B blood group serum for A anti- bodies
 - (d) For O blood group anti-H serum obtained from certain plant seeds of certain plant

Itemcode : **S21151**

Q60 Forensic Serologist uses several traditional antigenic properties of blood to couple with anti- bodies to establish paternity. Which one of the following does not belong to that property?

- (a) ABO cellular antigens
- (b) RH cellular antigens
- (c) MNSs cellular antigens
- (d) PGM cellular proteins