

Question Booklet No.

(To be filled up by the candidate by **blue/black ball-point pen**)

Roll No.

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Roll No. (Write the digits in words)

Serial No. of OMR Answer Sheet

Day and Date

(Signature of Invigilator)

INSTRUCTIONS TO CANDIDATES(Use only **blue/black ball-point pen** in the space above and on both sides of the **Answer Sheet**)

1. Within 10 minutes of the issue of the Question Booklet, Please ensure that you have got the correct booklet and it contains all the pages in correct sequence and no page/question is missing. In case of faulty Question Booklet, bring it to the notice of the Superintendent/Invigilators immediately to obtain a fresh Question Booklet.
2. Do not bring any loose paper, written or blank, inside the Examination Hall *except the Admit Card without its envelope*.
3. *A separate Answer Sheet is given. It should not be folded or mutilated. A second Answer Sheet shall not be provided.*
4. Write your Roll Number and Serial Number of the Answer Sheet by pen in the space provided above.
5. *On the front page of the Answer Sheet, write by pen your Roll Number in the space provided at the top, and by darkening the circles at the bottom. Also, wherever applicable, write the Question Booklet Number and the Set Number in appropriate places.*
6. *No overwriting is allowed in the entries of Roll No., Question Booklet No. and Set No. (if any) on OMR sheet and Roll No. and OMR sheet No. on the Question Booklet.*
7. *Any changes in the aforesaid-entries is to be verified by the invigilator, otherwise it will be taken as unfair means.*
8. *This Booklet contains 40 multiple choice questions followed by 10 short answer questions. For each MCQ, you are to record the correct option on the Answer Sheet by darkening the appropriate circle in the corresponding row of the Answer Sheet, by pen as mentioned in the guidelines given on the first page of the Answer Sheet. For answering any five short Answer Questions use five Blank pages attached at the end of this Question Booklet.*
9. For each question, darken only one circle on the Answer Sheet. If you darken more than one circle or darken a circle partially, the answer will be treated as incorrect.
10. *Note that the answer once filled in ink cannot be changed. If you do not wish to attempt a question, leave all the circles in the corresponding row blank (such question will be awarded zero marks).*
11. For rough work, use the inner back page of the title cover and the blank page at the end of this Booklet.
12. Deposit **both OMR Answer Sheet and Question Booklet** at the end of the Test.
13. You are not permitted to leave the Examination Hall until the end of the Test.
14. If a candidate attempts to use any form of unfair means, he/she shall be liable to such punishment as the University may determine and impose on him/her.

Total No. of Printed Pages : 15

FOR ROUGH WORK

Research Entrance Test – 2014

No. of Questions : 50

Time : 2 Hours

Full Marks : 200

- Note :** (i) This Question Booklet contains 40 Multiple Choice Questions followed by 10 Short Answer Questions.
- (ii) Attempt as many MCQs as you can. Each MCQ carries 3 (**Three**) marks. 1 (**One**) mark will be deducted for each incorrect answer. Zero mark will be awarded for each unattempted question. If more than **one** alternative answers of MCQs seem to be approximate to the correct answer, choose the closest one.
- (iii) Answer only 5 Short Answer Questions. Each question carries 16 (**Sixteen**) marks and should be answered in 150-200 words. Blank 5 (**Five**) pages attached with this booklet shall only be used for the purpose. Answer each question on separate page, after writing Question No.

1. Human teeth are :
 - (1) Heterodont, Thecodont and Diphyodont
 - (2) Homodont, Pleurodont and Diphyodont
 - (3) Acrodont, Heterodont and Polyphyodont
 - (4) Homodont, Pleurodont and Monophyodont

2. Which one of the constituents of the pancreatic juice which is poured into the duodenum in human is :
 - (1) Trypsinogen
 - (2) Chymotrypsin
 - (3) Trypsin
 - (4) Enterokinase

3. No cell could live without :
 - (1) Phytochrome
 - (2) Enzymes
 - (3) Chloroplast
 - (4) Protein

4. Which of the following is *not* a connective tissue ?
 - (1) Blood
 - (2) Lymph
 - (3) Nerve
 - (4) Bone

5. The most abundant intracellular cation is :
 - (1) Na^+
 - (2) Ca^{++}
 - (3) H^+
 - (4) K^+

6. Which of following is agranulocytes ?
 - (1) Lymphocyte
 - (2) Eosinophyl
 - (3) Basophyl
 - (4) Neutrophyl

7. Smallest bone in the body of human is :
 - (1) Incus
 - (2) Stapes
 - (3) Malleus
 - (4) Vomer

8. The number of spinal nerves in human is :
 - (1) 10 pairs
 - (2) 12 pairs
 - (3) 43 pairs
 - (4) 31 pairs

9. World diabetes day is :
 - (1) 21st October
 - (2) 19th November
 - (3) 14th November
 - (4) 2nd October

10. Which of the following is known as master endocrine gland ?
- (1) Adrenal gland
 - (2) Thyroid gland
 - (3) Pituitary gland
 - (4) Pineal gland
11. Which may be a consequence of occlusal trauma on implants ?
- (1) Widening of the periodontal ligament
 - (2) Soft tissue sore area around tooth
 - (3) Bone loss
 - (4) All of the above
12. A Dentist is preparing all maxillary anterior teeth for metal-ceramic crowns. Which of the following procedures is necessary in order to preserve & restore anterior guidance ?
- (1) Protrusive record
 - (2) Template for provisional restorations
 - (3) Custom incisal guide table
 - (4) Interocclusal record in centric relation
13. When soldering a fixed partial denture, what is the effect of flux when heated on the area to be soldered ?
- (1) To remove oxides from the metal surface
 - (2) To displace metal ions from the area
 - (3) To change the composition of the alloy
 - (4) To reduce the surface tension of the metal
14. The minor connector for a mandibular distal extension base should extend posteriorly about :
- (1) Two third the length of edentulous ridge
 - (2) Half the length of the edentulous ridge
 - (3) One third the length of the edentulous ridge
 - (4) As long as possible

15. A complete denture patient presents with angular cheilitis. A review of recent medical examination revealed that vitamin deficiency is not a factor. A possible predisposing factor is :
- (1) Excessive vertical dimension of occlusion
 - (2) A closed or insufficient vertical dimension of occlusion
 - (3) Improper balance of the occlusion
 - (4) Poor contour of the base.
16. A patient is unhappy with the esthetics of an anterior metal-ceramic crown, complaining that it looks too opaque in the incisal third. The most likely reason is :
- (1) Incorrect opaque porcelain shade
 - (2) Inadequate vacuum during porcelain firing
 - (3) Not masking the metal well enough with the opaque
 - (4) The tooth was prepared in a single facial plane
17. The ideal bone for implant support is :
- | | |
|-------------------|-------------------|
| (1) Spongy bone | (2) Corbical bone |
| (3) Lamellar bone | (4) Woven bone |
18. Hapsburg jaw is :
- | | |
|--------------------|---------------------|
| (1) Class III | (2) Class I |
| (3) Class II div I | (4) Class II div II |
19. Protrusion of tongue is brought about by :
- | | |
|------------------|---------------------------------|
| (1) Genioglossus | (2) Intrinsic muscles of tongue |
| (3) Styloglossus | (4) Palatoglossus |
20. Anticoagulant of choice during pregnancy is :
- | | |
|---------------------|----------------|
| (1) Warfarin sodium | (2) Heparin |
| (3) Sodium oxalate | (4) Phenindone |

21. Atropine is used is :
- (1) Organophosphate poisoning (2) Syncope
(3) Chronic glaucoma (4) Trigeminal neuralgia
22. Starry sky appearance is seen in :
- (1) Pagets Disease (2) Cherubism
(3) Garrey's Osteomyelitis (4) Burkitt's Lymphoma
23. Anaphylatoxins are fragments of :
- (1) C_{3a} , C_{5a} (2) C_{3b} , C_{5a}
(3) C_2 , C_3 (4) C_{3b} , C_{5b}
24. Which of the following instruments have 4 digit instrument formula ?
- (1) Ordinary hatchet (2) GMT
(3) Jaffery hatchet (4) All of the Above
25. In avulsion which of the following increases success rate ?
- (1) Dxycyclin (2) Ledermycin (3) Dexamethasone (4) Ampicillin
26. Handpiece sterilization is not done by :
- (1) ETO (2) Chemical (3) Dry heat (4) Autoclave
27. In regards to HIV infection, which of the following is the earliest finding ?
- (1) Kaposi Sarcoma on the palate (2) Reduced haemoglobin
(3) Infection with pneumocystic carinii (4) Reduction in white cell count
28. The periodontal ligament is :
- (1) Thinner on mesial surface (2) Thinner on distal root surface
(3) Same in thickness distally & mesially (4) Thicker on mesial surface
29. Stippling of gingiva :
- (1) Is best viewed in reflected light
(2) Is formed by extra layers of keratinization present on elevations on the gingival surface
(3) Is lost in disease but returns following restoration of gingiva to health
(4) Appears soon after first tooth eruption.

30. The only tissue borne functional Appliance is :
- (1) Activator (2) Bionator
(3) Twin- Block (4) Frankel
31. Which of the following is *not* an etiology of malocclusion ?
- (1) Genetic factors (2) Supernumery teeth
(3) Ectodermal dysplasia (4) Lip sucking
32. Carrey's analysis for the study models :
- (1) Is an effective guide to determine extraction or non extraction cases
(2) Is a primitive way & has no significance now
(3) Is an effective way to decide the duration of the treatment
(4) Aids in diagnosis of malocclusion
33. The freeway space is largest in :
- (1) Class I malocclusion (2) Class II div 1 malocclusion
(3) Class II div 2 malocclusion (4) Class III malocclusion
34. Main drawback of cervical head gear therapy :
- (1) Extrusion of upper molars (2) Intrusion of upper molars
(3) Extrusion of lower molars (4) Intrusion of lower molars
35. Overclosure of the mandible occurs when there is extensive loss of posterior teeth. This can lead to :
- (1) Clicking of temporomandibular joint
(2) Destruction of the articular disc
(3) Crepitus
(4) None of the above
36. Nuclear cytoplasmic ratio in malignant cells :
- (1) 1 : 6 (2) 1 : 5 (3) 1 : 1 (4) 6 : 4
37. Which among the following gene/factor will help in tumor progression ?
- (1) P_{21} (2) P_{16} (3) BCl_2 (4) Bax

38. At what age a child is expected to have 12 primary teeth & 12 erupted permanent teeth ?
(1) 4.5 years (2) 6.5 years
(3) 8.5 years (4) 11.5 years
39. Ammonia inhalation in one treatment of syncope acts by producing :
(1) Bronchodilatation (2) Vasoconstriction
(3) Sedation (4) Mucosal irritation
40. Of the following, which teeth need peimarily rotatory movement to extract them :
(1) Maxillary first premolar (2) Mandibular second premolar
(3) Mandibular central incisor (4) Mandibular lateral incisor

Attempt any five questions. Write answer in 150-200 words. Each question carries 16 marks. Answer each question on separate page, after writing Question Number.

1. Dental Implants.
2. Biofilm.
3. Bleaching of teeth.
4. Apex locator.
5. Indirect retainer.
6. Anatomy of Temporomandibular Joint.
7. Theories of local anaesthesia.
8. Orbital blow out fracture.
9. Osseoperception.
10. Diffusion Tensor Imaging.

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FOR ROUGH WORK

